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1. [illegible] — Biography
2. [illegible] — Biography: Dictionary
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RUS

RURAL UPLOOK SERVICE

A preliminary attempt to register the rural leadership in the United States and Canada

COMPILED BY

L. H. BAILEY

[See Addenda, page 309]

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SCOPE AND PLAN OF THE BOOK

The collecting of data for this register has been in progress nearly four years. The number of persons solicited for inclusion in the volume is 7061; the number responding and entered in the book is 2746. It will be seen, therefore, that the volume contains many less than three-sevenths the number of names the Editorial Office desired should go in, and the Office list itself is undoubtedly too short. Only those who have responded to requests are included in the volume. Effort has been made to complete the entries, often by follow-ups and several requests; when the persons do not respond, it is assumed that they prefer not to be included. It has been a difficult time in which to collect the information because of the distractions and the changes in addresses due to the call to war.

The field covered by such a register has no definite boundaries. In general, it has been the desire to compile compact information about those persons who are now contributing through their achievements to the betterment and advancement of country life. In many cases the decision as to the entry of certain names has been somewhat arbitrary, inasmuch as the persons are only incidentally or secondarily connected with rural subjects. It has been the aim to include those persons who are regularly and prominently engaged in rural work as farmers, teachers, investigators, business men, ministers, lecturers, farm agents, authors, editors, rural organizers, administrators, if their efforts are of such a nature as to make them public characters. The volume is designed to be only a compilation of information, not of biographies or recognitions of merit. Each entry is a *curriculum vitæ*, without enlargement or appraisal.

If the book proves to be useful to those interested in rural affairs, it is the expectation of the Compiler to reissue it from time to time in extended form.

The Who's Who volumes of many kinds have become indispensable works of reference, comprising authentic biographies and finding-lists of living persons, providing sources of information to those who desire to secure additions to their staffs, and affording a means of identifying something of a person's relationship with his work. The English Who's Who is now in its 70th year. Who's Who in America is in its tenth issue. In Germany, a corresponding compilation is *Wer ist's?;* in Italy, *Chi È?;* in France, *Qui Êtes-Vous?;* in Sweden, *Vem är Det?;* in Norway, *Hvem er Hvem?*. There are directories for different professions and regions in North America, becoming standard to the interests concerned. The rural field, however, is unsupplied. For some years suggestions have accumulated for the preparation of a Who's Who that will aid to organize the rural work, give it proper recognition, and record the human resources in the country-life movement. Such biographical compilation must constitute an important element in the survey of rural affairs and resources now so much in the public mind.

Record should be made at this place of the excellent book of 100 pages, "A Biographical Directory of American Agricultural Scientists," by Charles S. Plumb, published at Knoxville, Tenn., in 1889. It is a pioneer. "The publication of this book," the preface announces, "is the result of the establishment of the agricultural experiment stations of the United States. At the present time there are in the vicinity of 300 persons on the working staffs of the state agricultural experiment stations. Who these persons are, and what they have done, is a subject of more than idle interest to many." The thirty intervening years have brought great changes and extensions in rural leadership; and in the meantime, the idea of the Who's Who publications has grown in the public mind.

It has been the intention to include all officers in the colleges of agriculture, above the grade of Instructor, whose titles indicate that they are engaged in agricultural or rural work, whether these colleges are separate institutions or connected with universities. The grade of Instructor has been omitted because the incumbencies are usually only temporary and variable in character. It is not purposed to admit persons holding chairs of chemistry, zoology and botany as such, unless the title or history or connection indicates that the applied branches of the work, as agricultural chemistry, economic entomology, plant pathology, agricultural botany, are emphasized. The foresters, meteorologists, landscape architects, veterinarians, connected with colleges of agriculture are entered, but not those holding chairs in other institutions. The same is true of those in home economics. Certain practitioners are admitted who have been prominently identified with rural work. Care has been taken not to invade the field of Cattell's "American Men of Science."

In the United States Department of Agriculture and the experiment stations the entries are of those corresponding in rank, as closely as possible, to grades above Instructor in the colleges of agriculture; and for the Department the same theory of inclusion applies as for the Colleges.

All agricultural agents having regular charge of counties or larger districts are within the purview of the book, but not assistants or merely temporary agents. It has not seemed feasible, in the present stage of its development, to make record of the home demonstration movement.

There has been no effort to include persons because they hold public office, or are officers in societies.

It is not the expectation to enter persons because they are successful farmers. Such an effort would have made a book of far different intention, and also of unmanageable bulk. Such farmers should be known to the public and should have recognition. For many years the Compiler has felt that such lists or directories should be issued under public or semi-public auspices in each state or province. Undoubtedly the list of farmers should be much extended in subsequent issues of this book, comprising those known for their public service. By the word "farmer" is meant all those who till the soil for a livelihood, as general farmers, fruit-growers, floriculturists, stock-raisers, poultrymen, beekeepers, and others.

The pieces of information requested of respondents are as follows: name; occupation or profession; title, if in an institution or in public work; place and date of birth; parentage; how reared, whether on farm, in town or city; marriage; family; higher education, of academy grade or above; advanced degrees; college fraternity or sorority; subsequent academic history; kind of farming or other specialty; connection with honorary, learned or fine-art bodies or academies (not in regular membership associations); appointment on state or national commissions or other public boards or agencies; political, legal or military positions or offices; delegate offices to foreign or important conventions or bodies; decorations, medals, awards and prizes; elective officership in prominent agricultural societies, cooperative associations, and others; notable travel; authorship of books (not bulletins and reports); naturalization, if born abroad; editorial positions.

We should have as good record of the rural range as of the urban range. *Rus* and *urbs* together make up the public welfare.

L. H. Bailey.

PRINCIPAL ABBREVIATIONS IN THE BOOK

A. A. A. S. . American Association for the Advancement of Science
A.B., B.A. . . . . Bachelor of Arts
Acad. . . . . Academy
adj. . . . . adjunct
adv. . . . . advisor, advisory
A.E. . . . . Agricultural Engineer
agr. . . . . agriculture
agrl. . . . . agricultural
agron. . . . . agronomy, agronomist
agrst. . . . . agriculturist
agt. . . . . agent
Ala. . . . . Alabama
Alta. . . . . Alberta
Am. . . . . American
A.M., M.A. . . . . Master of Arts
A. & M. . Agricultural and Mechanical (College)
an. . . . . animal
anat. . . . . anatomy
arch. . . . . architecture, architect
Ariz. . . . . Arizona
Ark. . . . . Arkansas
assoc. . . . . associate, association
asst. . . . . assistant
auth. . . . . author

b. . . . . . born
B.A. . . . . Bachelor of Arts
bact. . . . . bacteriology, bacteriologist
B.Agr. . . . . Bachelor of Agriculture
B.Arch . . . . . Bachelor of Architecture
B.A.Sc. . . . . Bachelor Science of Agriculture
B. C. . . . . British Columbia
bd. . . . . board
B.D. . . . . Bachelor of Divinity
B.Di. . . . . Bachelor of Didactics
B.Ed. . . . . Bachelor of Education
biochem. . . . . biochemist, biochemistry
biol. . . . . biology, biologist, biological
B.L. . . . . Bachelor of Laws
bldg. . . . . building
B.Litt . . . . . Bachelor of Literature
bot. . . . . botany, botanist, botanical
B.Pd. or B.Ped. . . . . Bachelor of Pedagogy
B.Ph. . . . . Bachelor of Philosophy
B.S. or B.Sc. . . . . Bachelor of Science
B.S.A. . . Bachelor of Science of Agriculture
bur. . . . . bureau

c. . . . . . child, children
Calif. . . . . California
C.E. . . . . Civil Engineer
chem. . . . . chemist, chemistry, chemical
chg. . . . . charge
chm. . . . . chairman
co. . . . . county, company
col. . . . . colored
coll. . . . . college
Colo. . . . . Colorado
com. . . . . committee
comn. . . . . commission
comnr. . . . . commissioner
comp. . . . . comparative
Conn. . . . . Connecticut
coop. . . . . cooperative, cooperation

d. daughter, died (used only in parantheses)
D.C.L. . . . . Doctor of Civil Law
D.D. . . . . Doctor of Divinity
del. . . . . delegate
Del. . . . . Delaware
dem. . . demonstration, demonstrator, democratic
dept. . . . . department
dir. . . . . director
distr. . . . . district
div. . . . . division
dom. . . . . domestic
Dr.P.H. . . . . Doctor of Public Health
D.S., D.Sc. . . . . Doctor of Science
D.V.M. . . . . Doctor of Veterinary Medicine

econ. . . . . economics, economy, economist
ed. . . . . editor
educ. . . . . education
E.E. . . . . Electrical Engineer
engin. . . . . engineering, engineer
ent. entomology, entomologist, entomological
exec. . . . . executive
exp. . . . . experiment
exped. . . . . expedition
expl. . . . . experimental
Expos. . . . . Exposition
ext. . . . . extension

fed. . . . . federal, federation
fert. . . . . fertility, fertilizer
Fla. . . . . Florida
flor. . . . . floriculture
for. . . . . forestry, forester, forest
F.R.C.V.S. . Fellow Royal College of Veterinary Surgeons

Ga. ..... Georgia
gard. ..... gardening, garden
geol. ..... geology, geological
govt. ..... government
grad. ..... graduate

H. I. ..... Hawaiian Islands
hist. ..... history
hon. ..... honorary
hort. . horticultural, horticulturist, horticulture
husb. ..... husbandry

Ia. ..... Iowa
Ida. ..... Idaho
Ill. ..... Illinois
inc. ..... incorporated
ind. ..... industry, industrial
Ind. ..... Indiana
Inf. ..... Infantry
insp. ..... inspection, inspector
inst. ..... institute
instr. ..... instructor
inter. ..... international
invest. ..... investigation, investigator
irrig. ..... irrigation
Isls. ..... Islands

Kans. ..... Kansas
Ky. ..... Kentucky

La. ..... Louisiana
lab. ..... laboratory
lands. ..... landscape
L.B. ..... Bachelor of Laws
lect. ..... lecturer
L.H.D. ..... Doctor of Letters
Lieut. ..... Lieutenant
Lit.D. ..... Doctor of Literature
LL.B. ..... Bachelor of Laws
LL.D. ..... Doctor of Laws
LL.M. ..... Master of Laws

m. ..... married
M.A. ..... Master of Arts
M.Agr. ..... Master of Agriculture
Man. ..... Manitoba
manag. ..... manager, management
Mass. ..... Massachusetts
math. ..... mathematics
Md. ..... Maryland
M.D. ..... Doctor of Medicine
M.Di. ..... Master of Didactics
M.D.V. ..... Doctor of Veterinary Medicine
Me. ..... Maine
M.E. ..... Mechanical Engineer
mech. ..... mechanics, mechanical
mem. ..... member
M.F. ..... Master of Forestry
Mich. ..... Michigan

Minn. ..... Minnesota
Miss. ..... Mississippi
M.L. ..... Master of Laws
M.L.A. . Master of Landscape Architecture
Mo. ..... Missouri
Mont. ..... Montana
mos. ..... months
M.Pd. or M.Ped. ..... Master of Pedagogy
M.Ph. ..... Master of Philosophy
M. R. C. V. S. . Member Royal College of Veterinary Surgeons
M.S., M.Sc., S.M. ..... Master of Science
M.S.A., ... Master of Science in Agriculture
M.S.F. ..... Master of Science in Forestry

nat. ..... national, natural
N. B. ..... New Brunswick
N. C. ..... North Carolina
N. D. ..... North Dakota
Neb. ..... Nebraska
Nev. ..... Nevada
N. H. ..... New Hampshire
N. J. ..... New Jersey
N. Mex. ..... New Mexico
N. S. ..... Nova Scotia
nutr. ..... nutrition
N. Y. ..... New York

O. ..... Ohio
off. ..... office
Okla. ..... Oklahoma
Ont. ..... Ontario
Ore. ..... Oregon

Pa. ..... Pennsylvania
path. ..... pathology, pathologist
Ped. B. ..... Bachelor of Pedagogy
Ped. M. or Pd.M. .... Master of Pedagogy
P. E. I. ..... Prince Edward Island
Penn. ..... Pennsylvania
Ph.B. ..... Bachelor of Philosophy
Ph.D. ..... Doctor of Philosophy
Ph.G. ..... Graduate in Pharmacy
Phil. ..... Philosophical
Ph.M. ..... Master of Philosophy
physiol. ..... physiological
P. I. ..... Philippine Islands
poly. ..... polytechnic
pom. ..... pomology, pomologist
princ. ..... principal
prof. ..... professor
pub. ..... publisher, publishing

Que. ..... Quebec

rep. ..... representative
R. I. ..... Rhode Island

s. ..... son
Sask. ..... Saskatchewan

S.B. ..... Bachelor of Science
S. C. ..... South Carolina
Sc.B. ..... Bachelor of Science
Sc.D., S.D. ..... Doctor of Science
sch. ..... school
sci. ..... science, scientist, scientific
S. D. ..... South Dakota
sec. ..... secretary
sect. ..... section
sem. ..... seminary
serv. ..... service
S.M. ..... Master of Science
soc. ..... society
sociol. ..... sociology
sta. ..... station
S.T.B. ..... Bachelor of Sacred Theology
substa. ..... substation
superv. ..... supervisor
supt. ..... superintendent
surg. ..... surgery

teach. ..... teacher
tech. ..... technical, technology
Tenn. ..... Tennessee
Tex. ..... Texas
treas. ..... treasurer

Univ. ..... University

Va. ..... Virginia
veg. ..... vegetable, vegetables
vert. ..... vertebrate
vet. ..... veterinary, veterinarian
V.M.D. ..... Doctor of Veterinary Medicine
voc. ..... vocational
vol. ..... voluntary
V.S. ..... Veterinary Surgeon
Vt. ..... Vermont

Wash. ..... Washington
W. Va. ..... West Virginia
Wis. ..... Wisconsin
Wyo. ..... Wyoming

yrs. ..... years

zool. ..... zoology, zoologist

RUS: RURAL UPLOOK SERVICE

Aamodt, Arne Wergeland, co. agrl. agt., Bemidji, Minn.

Field asst. and instr. hort., Minn. Exp. Sta., 1910–7. *b.* St. Paul, Minn., Dec. 5, 1886; *s.* Aug. A. and Julia (Hagen) A.; reared in city and on farm. Student, Univ. Minn. Alpha Zeta. [Aamodt, O. S., p. 309.

Abbe, Cleveland Jr., meteorologist and ed. Monthly Weather Review, Weather Bur., U. S. Dept. Agr., Washington, D. C.

Instr. physiography, Geo. Washington Univ., 1895–8; prof. nat. sci., Winthrop Normal Sch., Rock Hill, S. C., 1899–1901; aid U. S. Geol. Survey, 1903–6; asst., acting and chief ed. Monthly Weather Review, 1908–10, 1914—. *b.* Washington, D. C., Mar. 25, 1872; *s.* Cleveland and Frances Martha (Neal) A.; reared in city; *m.* Frieda Dauer, 1903; *c.* Ernst Cleveland. A.B., Harvard Univ., 1894; A.M., 1896; Ph.D., Johns Hopkins Univ., 1898; student Imperial Univ., Vienna, 1901–3.

Abell, Max Flavel, asst. prof. farm manag., Conn. Agr. Coll., Storrs, Conn.

Asst. farm crops, Ohio State Univ., 1914–5; asst. farm crops, Cornell Univ., 1915–7; instr. farm manag., Conn. Agr. Coll., 1917; asst. prof., 1918—. *b.* Solvay, N. Y., Oct. 13, 1888; *s.* F. L. and Annie Rose (Palmer) A.; reared on farm. B.Sc., Cornell Univ., 1914. Alpha Zeta.

Abbott, Fortis Harold, co. agrl. agt., farmer, Montpelier, Vt.

b. Brookfield, Vt., Oct. 31, 1891; *s.* Irving N. and Mary E. (Steele) A.; reared on farm; *m.* Sadie M. Chambers, Mar. 6, 1915; *c.* Nathan M. B.S., Univ. Vt., 1913. Alpha Zeta.

Abbott, John Blackler, co. agrl. agt., Waltham, Mass.

Deputy state chem., Purdue Univ., 1907–8; asst. soils, 1908–11; assoc. soils, 1911–4; state co. agt. leader, N. H. A.&M. Coll., 1914–6; asst. prof. agron., Mass. Agr. Coll., winter 1917; agrl. agt., Middlesex Co., Mass., 1917—. Mem. exec. com., N. E. Fed. for Rural Progress, 1915–6. Farm operator. *b.* E. Bethel, Vt., Jan. 5, 1883; *s.* Lewis H. and Louise (Jones) A.; reared on farm; *m.* Myra P. Ashwell, Aug. 5, 1908; *c.* Thomas Lewis, Ellen Louise. B.S.A., Univ. Vt., 1907; M.S.A., Purdue Univ., 1909. Sigma Xi.

Abbott, Mark Moore, co. agrl. agt., International Falls, Minn.

Mem. Ford Peace Party to visit Europe, 1915–6. *b.* Watkins, Minn., Jul. 12, 1894; *s.* I. M. and Maria (Cole) A.; reared on farm. B.S., Univ. Minn., 1916. Sigma Gamma Delta.

Ackert, James Edward, assoc. prof. zool. and parasitologist Exp. Sta., Kans. State Agr. Coll., Manhattan, Kans.

Prof. vert. zool., Ill. State Normal Univ., summer 1913; asst .prof. zool., Kans. State Agr. Coll., 1913–6; assoc. prof., 1916—; parasitologist Exp. Sta., 1913—. Fellow A. A. A. S. *b.* Woosung, Ill., Aug. 31, 1879; *s.* Abram and Eva (Nowell) A.; reared on farm; *m.* Florence Mae Tanner, Aug. 15, 1914. A.B., Univ. Ill., 1909; A.M., 1911; Ph.D., 1913. Sigma Xi; Phi Kappa Phi; Gamma Alpha.

Adair, Shields B., co. agrl. agt., Rome, Ga.

Farm supt., 10th Distr. Agr. Sch., Sparta, Ga., 1910–1; farmer and stockman, 4 yrs. *b.* Elberton, Ga., Sept. 27, 1891; *s.* Samuel B. and Fannie A. (Thornton) A.; reared in town and on farm; *m.* Ellen L. Davis, Dec. 2, 1914; *c.* Sarah Elizabeth.

Adams, Bristow, prof., ed. publications, chg. information serv., N. Y. State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Assoc. ed. Pathfinder, Washington, 1894–6; artist Bering Sea Fur Seal Comn., 1897–8; ed. American Spectator, 1902–6; assoc. ed. Forestry and Irrigation, 1903–4; for. asst. and for. examiner, U. S. For. Serv., 1906–14; present position, 1914—.

Sec. Soc. Am. Foresters, 1914. *b.* Washington, D. C., Nov. 11, 1875; *s.* Crawford Cadwalader and Ada Gertrude (Harrison) A.; reared in city, farming in Va., 1886–91, in Calif., 1899; *m.* Luella Farmer, Apr. 23, 1902; *c.* Eleanor, Gertrude, Everett Wallace, Bristow H. Art educ. Spring Garden Inst., Philadelphia, Corcoran Art Sch., Washington, Barron Studios, Stanford Univ.; B.A., Stanford Univ., 1906. Sigma Xi; Alpha Gamma Rho.

Adams, Charles Snyder, co. agrl. agt., Reading, Pa.

Teach. math., Perkiomen Sem., 1909–10. Dir. Reading Fair Assoc., 1915—; adv. in Berks Produce Exchange. *b.* Jacksonwald, Pa., Oct. 30, 1888; *s.* Albert H. and Deborah T. (Snyder) A.; reared on farm. B.S., Penn. State Coll., 1914. Alpha Gamma Rho.

Adams, Daniel Snyder, co. agrl. agt., West Chester, Pa.

Teach. rural sch., 1908–12. *b.* Jacksonwald, Pa., Apr. 10, 1891; *s.* Albert Hartman and Deborah (Snyder) A.; reared on farm. B.S., Penn. State Coll., 1917. Alpha Zeta; Phi Kappa Phi.

Adams, Edward Francis, farmer and journalist, 954 Ashbury St., San Francisco, Calif.

Editorial writer, San Francisco Chronicle. Served in Civil War. *Auth.:* The Modern Farmer, 1899; Critique of Socialism, 1905; Inhumanity of Socialism, 1913. *b.* Augusta, Me., Dec. 30, 1839; *s.* Thos. and Catherine (Lyman) A.; *m.* Roah Elmira Shattuck, Jan. 30, 1860; 2d, Delia Ray Cooper, Dec. 25, 1868. Grad. Western Reserve Coll., 1860.

Adams, Frank, irrig. manag., Off. Public Roads and Rural Engin., U. S. Dept. Agr., and prof. irrig. invest., Univ. Calif., Berkeley, Calif.

Irrig. invest., U. S. Dept. Agr., 1900–6, 1910—; chg. coop. irrig. invest. in Calif. (U. S. Dept. Agr., Calif. State Dept. Engin., Univ. Calif.), 1910—. *Ed.*, Transactions, Commonwealth Club of Calif., 1906–8; chm. sect. on conservation, 1911–6. *b.* Chicago, Ill., Sept. 19, 1875; *s.* Edward Francis and Delia Roxana (Cooper) A.; reared on farm; *m.* Amy Belle Hill, June 20, 1906; *c.* Helen, Francis Edward, David Hill. A.B., Stanford Univ., 1901; A.M., Univ. Neb., 1906.

Adams, George Edward, prof. agron., dean agrl. dept., R. I. State Coll., Kingston, R. I.

Asst. hort., R. I. Exp. Sta., 1894–1901; asst. hort., 1901–4; assoc. agron., 1904–7; prof. agron., R. I. State Coll., 1907—; dean agrl. dept., 1917—; state statistical agt., U. S. Dept. Agr. for R. I., 1901–14. *b.* N. Kingstown, R. I., May 12, 1874; *s.* Geo. L. and Annie (Gould) A.; reared on farm and in town; *m.* Mary Gates Schermerhorn, Oct. 20, 1903. B.S., R. I. State Coll., 1894; M.S.A., 1916; grad. student Cornell Univ., 1897, 1899–1900.

Adams, Harvey Snyder, co. agrl. agt., Butler, Pa.

Instr. agr., Columbia Co. Summer Normal, Benton, Pa., 1911; instr. agr. and bot., West Chester State Normal, 1912. Sec.-treas., Pa. Assoc. Ext. Rep. *b.* Earlville, Pa., Jul. 6, 1886; *s.* Albert H. and Deborah T. (Snyder) A.; reared on dairy farm. B.S., Penn State Coll., 1912. Alpha Gamma Rho; Phi Kappa Phi.

Adams, Richard Laban, asst. prof. agron., Univ. Calif., Berkeley, Calif.

Dir. Spreckels Sugar Co. Exp. Sta., Spreckels, Calif., 5 yrs.; asst. general manag., Miller & Lux Inc., Calif., 2 yrs.; present position, 1914—. Farm help specialist for Calif., U. S. Dept. Agr. *Auth.:* Manual for Sugar Beet Growers, 1913. *b.* Dorchester, Mass., Aug. 27, 1883; *s.* Chas. Laban and Emma (Sellew) A.; reared in city; *m.* Grace Ella Fuller, June 22, 1910. B.S., Mass. Agr. Coll., 1905; B.S., Boston Univ., 1905; M.S., Univ. Calif., 1910. Phi Kappa Phi.

Adams, Romanzo, prof. agrl. econ., Univ. Nev., Reno, Nev.

Princ. public schs., Ireton, Ia., 1892–4; prof. econ. and sociol., Western Coll., Toledo, Ia., 1898–1900; prof. educ. and sociol., 1902–11; present position, 1911—. Pres. Nev. State Teach. Assoc., 1905–10; sec. Nev. Comn. on Econ. and Taxation, 1912–3. *Auth.:* Taxation in Nevada—A History, 1918. *b.* Bloomingdale, Wis., Mar. 22, 1868; *s.* Mighill Dustin and Catherine (Wolfe) A.; *m.* Nellie Cronk, Sept. 16, 1902. M. Di., Ia. State Teach. Coll., 1892.; Ph.B., Univ. Mich., 1897; Ph.M., 1898; Ph.D., Univ. Chicago, 1904.

Adkins, Charles, farmer, dir. of agr., Dept. Agr., Springfield, Ill.

Mem. Ill. Legislature, 6 yrs.; speaker

House of Rep., 2 yrs. *b.* near Derby, O., Feb. 7, 1863; *s.* Sampson and Eliza Ann (Mintin) A.; reared on farm; *m.* Dora E. Farrow, Jan. 8, 1887; *c.* Dora Ellen, Chas. Otis, Ben F., Roy, Howard, Ruth, Grace, Mary E., Martha.

Agee, Alva, dir. ext. div. and prof. soil fert., Rutgers Coll., New Brunswick, N. J.
Prof. in chg. agrl. ext., Penn. State Coll., 1907–12; dir. div. ext. in agr. and home econ., Rutgers Coll. 1912—. Sec. N. J. State Dept. Agr., 1916—. *Auth.:* Essentials of Soil Fertility, 1911; Crops and Methods for Soil Improvement, 1913. *Assoc. ed.*, National Stockman and Farmer. *b.* Cheshire, O., Oct. 1, 1858; *s.* Jesse Thornhill and Lydia (Mauck) A.; *m.* Louise Grace Hibbs, Oct. 6, 1887. M.S., Univ. Wooster, O., 1911. Delta Upsilon; Phi Kappa Phi; Alpha Zeta.

Agee, Hamilton Pope, dir. Hawaiian Sugar Planters' Exp. Sta., Honolulu, Hawaii.
Asst. dir. in chg. La. Sugar Exp. Sta., 1909–11; agrst., Hawaiian Sugar Planters' Exp. Sta., 1911–3; dir., 1913—. Mem. Fair Comn. of Hawaii. *b.* Memphis, Tenn., Dec. 9, 1884; *s.* G. W. and Elizabeth (Worthen) A.; *m.* Fannie Heaslip Lea, May 11, 1911; *c.* Anne W. B.S., La. State Univ., 1904. Kappa Sigma.

Agster, Horatio Stanley, co. agrl. agt., Anderson, Ind.
Farmer, 1914–8. *b.* Fulton Co., Ind., May 2, 1891; *s.* Fred and Ellen (Johnson) A.; reared on farm; *m.* Catherin Bernice Coplen, May 26, 1915; *c.* Richard Tod. B.S., Purdue Univ., 1915.

Ahearn, Michael Francis, prof. pom., Kans. State Agr. Coll., Manhattan, Kans.
Asst. hort., Kans. State Agr. Coll., 1904–9; head coach athletics, 1905–11; instr. hort., 1909–11; asst. prof. hort., 1911–3; assoc. prof. hort., 1913–5; prof. pom. and lands. gard., 1915—. Mem. Kans. Rural Life Comn., 1916—. Florist 6 yrs. in Mass. and N. H. *b.* Masboro, England, Nov. 28, 1878; *s.* John and Mary (Currivan) A.; reared in city and country; *m.* Mary Elizabeth Davis, Aug. 14, 1907; *c.* James Edward. B.Sc., Mass. Agr. Coll. 1904; M.S., Kans. State Agr. Coll., 1913. Alpha Sigma Phi; Alpha Zeta; Phi Kappa Phi.

Aicher, Louis Cornelius, supt. Aberdeen Exp. Sta., Aberdeen, Ida.
Supt. Exp. Sta., Caldwell, Ia., 1910–1; present position, 1911—; agron., cereal invest., U. S. Dept. Agr., 1911—. *b.* Meeker, Colo., Jan. 16, 1887; *s.* C. and Lena (Estell) A.; reared on farm; *m.* Edith Nellie Davies, June 15, 1911; *c.* Louis Carlyle, Frances, Geo. Wilson. B.S.A., Kans. State Agr. Coll., 1910. Alpha Zeta.

Albrecht, Simon, farmer and stockman, Tiskilwa, Ill.
Pres. Ill. Swine Breeders' Assoc.; sec. Ill. Hampshire Swine Breeders' Assoc. *b.* Tiskilwa, Ill., Jan. 18, 1877; *s.* John A. and Elizabeth (Birky) A.; reared on farm; *m.* Sarah Alice Stahly, June 12, 1902; *c.* Dorothy, Marvin, Beulah, Kenneth, Chas., Everett.

Alderman, W. H., prof. hort., W. Va. Univ., Morgantown, W. Va.
Field agt. making orchard survey for div. pom., Cornell Univ., summer 1908; asst. and assoc. hort., N. Y. Exp. Sta., Geneva, 1908–11; prof. hort. and hort. Exp. Sta., Morgantown, W. Va., 1911— *Auth.:* (with others) Plums of New York. *b.* Orleans Co., N. Y., Apr. 6, 1885; *s.* Chas. C. and Elvira A. (Root) A.; reared on farm; *m.* Margaret B. Chamberlayne, Sept. 23, 1908; *c.* De Forest Chas. B.S.A., Cornell Univ., 1908. Sigma Phi Sigma.

Alderson, Matt. W., ed. Northwestern Stockman and Farmer, Helena, Mont.
Ed., Avant Courier, Bozeman, Mont., 1897; present position, 1918—. Traveled in S. America and Cent. America. *b.* Shullsburg, Wis., Apr. 15, 1855; *s.* Wm. W. and Frances (Weatherby) A.; reared on farm; *m.* Mary Elizabeth Long, Sept. 12, 1888; *c.* Myrtle, Dorothy, Priscilla.

Alexander, Henry Quincy, farmer and physician, Matthews, N. C.
Pres. N. C. Farmers' Educ. and Coop. Union, 1908–19; mem. N. C. State Bd. Agr. Mem. N. C. Legislature, 1903, 1905. *b.* Fancy Hill, N. C., Aug. 23, 1863; *s.* Junius M. and Sarah (Gibson) A.; reared on farm; *m.* Annie Lee Campbell, Aug. 23, 1888; 2d, Ethel Brinkley, June 19, 1917; *c.* Clive, Edith, Jessie, Henry, Thomas, Dwight, Frances, Mary, Ruth Brinkley. M.D., Univ. Md., 1888.

Alexander, Walter Albert, co. agrl. agt., Ashland, O.

Teach. agr., Western Reserve Acad., Hudson, O., 1916–8. *b.* Ballaire, O., Jan. 15, 1892; *s.* Walter L. and Alberta (Jackson) A.; reared in country; *m.* Joyce M. Ewing, Oct. 4, 1915. B.Sc. (Agr.), Ohio State Univ., 1916. Alpha Sigma Phi.

Alger, Paul Edgar, co. agrl. agt., Vineyard Haven, Mass.

Tobacco grower, Conn., 1910–6; seed potato grower, Mass., 1916–7; agt. Dukes and Nantucket Cos., 1917—. *b.* Somerville, Mass., Aug. 16, 1887; *s.* James E. and Annie (Dolloff) A.; reared in town; *m.* Mabel A. Puffer, Nov. 11, 1911; *c.* Marion Kirkland, Marjorie Dolloff. B.S., Mass. Agr. Coll., 1909. Alpha Sigma Phi.

Alleman, Milton Reuben, co. agrl. agt., Port Angeles, Wash.

Farmer; deputy state dairy comnr., 1909–11. *b.* Kansas City, Mo., Jan. 13, 1888; *s.* Reuben A. and Elizabeth (Dryfuse) A.; reared on farm; *m.* Sabra Eleanor Kennedy, Aug. 19, 1911; *c.* Eleanor Elizabeth, Reuben Kennedy. B.S.A., Kans. State Agr. Coll., 1909. Alpha Zeta.

Allen, Blynne, distr. dem. agt., Augusta, Me.

Specialist orchards and crops, Me. Dept. Agr., 1914–5; supt. Pinecroft Dairy, Westbrook, Me., 1915–6; supt. schs., Eliot and S. Berwick, 1916–7. *b.* Raymond, Me., June 1, 1888; *s.* Abner Winfield and Alice (Dingley) A.; reared on farm; *m.* Florence E. Allen, June 1, 1916; *c.* Elmer Winfield. Student Univ. Me., Cornell Univ. Phi Kappa Sigma.

Allen, Edwin West, chief Off. Exp. Stas., States Relations Serv., U. S. Dept. Agr., Washington, C. D.

Asst. chem., Mass. Exp. Sta., 1885–8; asst. Off. Exp. Stas., 1890–3; asst. dir., 1903–15; chief, 1915—. Exec. sec. Comn. on Country Life, 1908; mem. Nat. Research Council, 1917—. Sec.-treas. Soc. for Promotion Agrl. Sci., 1910–4; sec. Sect. Agr., A. A. A. S., 1914—; sec. com. on station organizing and policy, Assoc. Am. Agrl. Colls. and Exp. Stas. Traveled in Europe. *Assoc. ed.,* Experiment Station Record, 1893–5; ed., 1895—; ed. for agr., New International Encyclopaedia, Nelson's Encyclopaedia. *b.* Amherst, Mass., Oct. 28, 1864; *s.* Lysander H. and Mary M. (Bullard) A.; reared in town; *m.* Estelle S. Perkins, Apr. 2, 1890; *c.* Dorothy H. B.S., Mass. Agr. Coll., 1885; Ph.D., Univ. Goettingen, 1890. Alpha Sigma Phi.

Allen, Frank Wisdom, asst. hort., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Instr. hort., Ia. State Coll., 1910–3; instr. hort., Wash. State Coll., 1913–4; asst. hort., 1914–7; present position, 1917—. *b.* Columbia, Mo., Jul. 18, 1887; *s.* Frank W. and Floyd (Prather) A.; reared in town and on farm; *m.* Alma Leora Turner, Jul. 18, 1911; *c.* Frank W., Floyd Turner. B.S.A., Univ. Mo., 1910; M.S., Ia. State Coll., 1913. Gamma Sigma Delta; Phi Kappa Phi.

Allen, Harry Earl, assoc. prof. an. husb., Purdue Univ., LaFayette, Ind.

Assoc. prof. an. husb., Va. Poly. Inst., 1909–10; instr. an. husb., Purdue Univ., 1910–2; asst. prof., 1912–6; assoc. prof., 1916—. Sec. Ind. Sheep Breeders' Assoc.; sec. Ind. Live-stock Breeders' Assoc.; sec. Ind. Hereford Breeders' Assoc. 1st Sergeant and 2d Lieut., Ind. Nat. Guards. *b.* Van Wert, O., Jan. 20, 1885; *s.* F. M. and Jennie (Balyeat) A.; reared on farm; *m.* Blanche Slocum, June 12, 1912 (d. 1913); *c.* Richard Slocum. B.S.A., Ohio State Univ., 1909. Phi Delta Theta; Alpha Gamma Rho.

Allen, Ralph, farmer, Delavan, Ill.

Breeder Jersey cattle, 1876–1900; grain and live-stock farmer, 1900—. Dir. Ill. State Dairymen's Assoc., 3 yrs.; dir. Ill. Farmers' Insts., 1901—. *b.* Seakonk, Mass.; *s.* Jonathan B. and Harriet M. (Horton) A.; reared on farm; *m.* Ada M. Eaton, 1879; *c.* Edith L., Paschal, Fred E., Jonathan B., Ralph Jr., Lucy E., Harriet M., Hester A., Eloise G., Theodore R. B.S., Univ. Ill., 1876; M.S., 1894.

Allen, W. C., ed. The Dakota Farmer, Aberdeen, S. D.

b. Columbia Co., Wis., Aug. 11, 1869; *s.* Wm. C. and Sarah T. (Carr) A.; *m.* Arabella French, Feb. 1, 1896; *c.* Esther.

Allison, Harry Orson, assoc. prof. an. husb., Univ. Mo., Columbia, Mo.

Instr. an. husb., Univ. Ill., 1906–10;

asst. prof. an. husb., Univ. Mo., 1910–2; assoc. prof., 1912—. Sec. Mo. Cattle, Swine, and Sheep Feeders' Assoc. *b.* Alpha, Ill., Nov. 17, 1881; *s.* W. O. and Phylinda (Patterson) A.; reared on farm. B.S., Univ. Ill., 1906; M.S. 1912. Sigma Xi; Phi Sigma Kappa; Alpha Zeta; Gamma Alpha.

Allison, Inga Marie Katrine, prof. home econ., Colo. Agr. Coll., Fort Collins, Colo.
Assoc. prof. chem. and home econ., Lake Erie Coll., 1905–8; present position, 1908—. *d.* John and Inga (Acker) A.; reared on farm. A.B., Univ. Chicago, 1905.

Allison, John Howard, prof. for., Univ. Minn., University Farm, St. Paul, Minn.
Present position, 1913—. *b.* E. Granby, Conn., Sept. 25, 1883; *s.* John A. and Mary E. (Mack) A.; reared on farm; *m.* Mabel A. Shepard, Sept. 6, 1911; *c.* John H. Jr. Ph.B., Sheffield Sci. Sch., Yale, 1905; M. F., Yale For. Sch., 1906.

Allison, John Hampden, co. agrl. agt., Council Bluffs, Ia.
b. Butler, Mo., Jan. 17, 1886; *s.* J. H. and Mattie (Roe) A.; reared on farm; *m.* Florence Badgley, Jul. 12, 1917. B.S.A., Ia. State Coll., 1915.

Allred, Charles Ernest, specialist in farm manag. ext., Univ. Tenn., Knoxville, Tenn.
With Off. Farm Manag., 1915; asst. specialist in agron. ext., Univ. Tenn., 1916–8; present position, 1918—. *b.* Allred, Tenn., Apr. 5, 1887; *s.* Pierson Miller and Lee Anne (Looper) A.; reared on farm. B.S.A., Univ. Tenn., 1912; M.S.A., Cornell Univ., 1913. Sigma Phi Epsilon; Alpha Zeta.

Alsberg, Carl Lucas, biochem. and chief Bur. Chem., U. S. Dept. Agr., Washington, D. C.
Asst. physiological chem., Harvard Univ., 1902–5; instr. biol. chem., 1905–8; chem. biol., Bur. Plant Ind., 1908–12; chief Bur. Chem., 1912—; invest., U. S. Bur. Fisheries, 1906–8. Fellow A. A. A. S. Sec.-treas. Assoc. Official Agrl. Chems.; pres. Am. Soc. Biol. Chem. *b.* New York, N. Y., Apr. 2, 1877; *s.* Meinhard and Bertha (Baruch) A.; reared in city. A.B., Columbia Univ., 1896; A.M., 1900; M.D., 1900; studied Univ. Strassburg and Berlin, 1900–3.

Alsop, Joseph Wright, farmer, Avon, Conn.
Trustee Conn. Agr. Coll.; mem. bd. control, Conn. Exp. Sta. Mem. Conn. House of Rep., 1907; Conn. Senate, 1909–11. Pres. New England Tobacco-Growers' Assoc.; pres. Conn. Guernsey Cattle Club. Public utilities comnr. Tobacco and dairy farmer, 1901—. *b.* Middletown, Conn., Apr. 2, 1876; *s.* Joseph Wright and Elizabeth Winthrop (Beach) A.; reared in country; *m.* Corinne Roosevelt Robinson, Nov. 5, 1909; *c.* Joseph Wright, Corinne Roosevelt, Stewart J. O., John O. Ph.B., Yale Univ., 1898; student Univ. Berlin, 1893–4. Delta Psi.

Alspaugh, Clyde Harrison, co. agrl. agt., El Dorado, Ark.
Agrst., Boys' Ind. Sch., Waialee, Hawaii, 1911–3; voc. instr., Isl. of Kansi, 1913–5; prof. hort. and agron., distr. agr. sch., Russellville, Ark., 1916–7; asst. prof. hort., Grubbs Voc. Coll., Arlington, Tex., 1917–8; present position, 1918—. Traveled in China and Japan. *b.* Lincolnville, Kans., Nov. 25, 1888; *s.* N. Franklin and Mary E. (Sill) A.; reared on farm; *m.* Alice M. Taylor, June 27, 1918. B.S., Kans. State Agr. Coll., 1909. Gamma Sigma Delta.

Alvord, Charles Hulbert, agrst. and field agt., States Relations Serv., U. S. Dept. Agr., Washington, D. C.
Asst. agrst., Mich. Agr. Coll., 1897–9; asst. prof. agr., Tex. A. & M. Coll., 1899–1902; prof. and dean agr., 1906–11; supt. ext. farming, Taft Ranch, Corpus Christi, Tex. 1911–7; present position, 1917—. *b.* Camden, Mich., Oct. 16, 1872; *s.* Nathan Alonzo and Melinda (Landon) A.; reared on farm; *m.* Lotta L. Hicks, Oct. 28, 1896; *c.* Janet Carr, Inez Francis, Mina Cook, Chas. H. Jr. B.S. Mich Agr. Coll., 1895; M. Agr., 1907. Phi Delta Theta.

Alway, Frederick James, chief div. soils, Univ. Minn., University Farm, St. Paul, Minn.
Prof. chem., Neb. Wesleyan Univ., 1898–1906; prof. agrl. chem., Univ. Neb., 1906–13; prof. soil chem. and chief div., Univ. Minn., 1913—. *b.* Rockford, Canada, May 28, 1874 (naturalized 1911); *s.* Frederick and Rachel (Mason) A.; reared on farm; *m.* Eva Mary Cook,

1898; *c.* Erica, Lazelle, Lenore, Frederica, Robt. B.A., Toronto Univ., 1894; Ph.D., Heidelberg Univ., 1897.

Alwood, William Bradford, fruit-grower and farmer, "Stonehenge," Charlottesville, Va.
Teach. country sch., 1879–81; supt. Ohio Exp. Sta., 1882–6; asst. ent., U. S. Dept. Agr., 1886–8; vice-dir. Va. Exp. Sta., 1888–1904; prof. hort., Va. Poly. Inst., 1891–1904; chg. invests. on fermentation of fruit-products, Bur. Chem., U. S. Dept. Agr., 1900–6; enological chem., 1907–14, chief. enological lab. Del. to Inter. Congress on Agrl. Educ., Paris, 1900; Inter. Congress on Viticulture, France, 1907, 1911, 1914; Inter. Congress for Agr., 1911. Decorated by French govt., Chevalier du Merite Agricole, Officier du Merite Agricole; gold medal, St. Louis, 1904; hon. memorial medal, San Francisco, 1914. Fellow A. A. A. S. Mem. Societe des Chemistes Experts de France. *b.* Delta, O., Aug. 11, 1859; *s.* D. W. and Anna E. (Brailey) A.; reared on farm; *m.* Seffie Gantz, Mar. 4, 1884; *c.* Hubert J., Helen Anna, Nellie Sarah, Mabel, Wm. B. Jr., Lewis G., Esther, Richard O. Special student, Ohio State Univ.; Royal Pom. Sch., Germany, 1900–1; Inst. Pasteur, Paris, 1907.

Amundsen, Edward Otto, co. agrl. agt. and instr. agrl. ext., Univ. Calif., E. Auburn, Calif.
Farmer, Minn., 1903–7; fruit-grower, Walla Walla Valley, Ore., 1907–8; agt. Placer Co., 1915—. Mem. State Hort. Comn., 1911–2. *b.* Chicago, Ill., Jul. 20, 1884; *s.* O. and Anna (Staven) A.; reared in city and on farm; *m.* Cora A. Simpkins; *c.* Jack Edward. B.S., Univ. Calif., 1912. Delta Sigma Phi; Alpha Zeta.

Anderson, A. Crosby, prof. dairy husb., Mich. Agr. Coll., E. Lansing, Mich.
Supt. schs., Smethport, Pa., 1890–1; supt. schs., Forestville, N. Y., 1891–1904; present position, 1908—. Studied dairying one summer in Europe. *b.* Ellington, N. Y., Aug. 19, 1865; *s.* Edwin and Katherine (Crosby) A.; reared on farm; *m.* Inez E. Shannon, June 28, 1894; *c.* 2 sons. B.S., Mich. Agr. Coll., 1906.

Anderson, Andrew Daniel, co. agrl. agt., Sidney, Mont.
Teach. agr., bot., zool. and manual training, high-sch., Elbow Lake, Minn., 1911–2; co. agt., Glenwood, Minn., 1912–7; Sidney, Mont., 1917—. Farmer. *b.* Solaro Dalarne, Sweden, Sept. 5, 1880; *s.* Daniel and Christina (Johnson) A.; reared on farm; *m.* Mazie Winifred Joy, Jul. 11, 1913. Student Univ. Minn., 2 terms.

Anderson, Arthur E., assoc. state leader co. agts., Ohio State Univ., Columbus, O.
State leader co. agt. work, Univ. Neb., 1912–7; asst. state leader co. agts., Ohio State Univ., 1917–8; assoc. state leader, 1918—. *b.* Wayne, Neb., Feb. 1886; *s.* A. G. and Ellen (Rosenberg) A.; reared on farm. A.B., Univ. Neb., 1912. Alpha Zeta.

Anderson, Bruce, co. agrl. agt., Winston-Salem, N. C.
Agrst., Patterson Sch., Legerwood, N. C., 1911–3. Organizer N. C. Bull Club or Breeders' Assoc.; originator N. C. Bee Club, 1914. *b.* Chatham, Va., May 24, 1885; *s.* J. C. and Mary Jane (Smith) A.; reared on farm; *m.* Lillian R. Speas, Dec. 23, 1914; *c.* Bruce Jr., Lloyd. B.S., Va. Poly. Inst., 1907.

Anderson, Charles Claude, co. agrl. agt., St. Marys, W. Va.
Teach. rural schs., 2 yrs.; high-sch., 1 yr.; co. agt., 1913—; co. food administrator, 1918—. *b.* Conkling, Ky., Mar. 18, 1889; *s.* J. W. and Louise (McCollum) A.; reared on farm; *m.* Jennie Jones Elliott, May 30, 1914; *c.* Chas. C. B.S., Berea Coll., Ky., 1913.

Anderson, Clarence Russell, asst. prof. for., Penn. State Coll., State College, Pa.
Instr. for., Penn. State Coll., 1914–6; asst. prof., 1916—. *b.* Cecil Co., Md., Jul. 23, 1885; *s.* Franklin Pierce and L. Margaret (McAllister) A.; reared on farm; *m.* Doll Jeannette Dupuis, Dec. 12, 1913; *c.* C. R. Jr. B.S., Dickinson Coll., 1908; M. F., Yale For. Sch., 1913.

Anderson, Erwin Oliver, co. agrl. agt., Denton, Md.
Instr. farm manag., Penn. State Coll., 1915–7; co. agt., 1917—. *b.* Shelby, Mich., Dec. 27, 1890; *s.* Gabe and Lena (Nelson) A.; reared on farm. B.S., Mich. Agr. Coll., 1914; M.S., Univ. Wis., 1915.

Anderson, Leroy, farmer, San Jose, Calif.
Asst. dairy ind., Cornell Univ., 1897–1900; instr. dairy ind., Univ. Calif., 1900–2; dir. Calif. Poly. Sch., San Luis Obispo, 1902–8; prof. agrl. practice, Univ. Calif., 1908–13; ext. lect. an. husb., Cornell Univ., winters 1915–8; fruit-grower, Calif., 1914—. Editorial contributor, California Cultivator. *b.* Magee, N. Y., Dec. 4, 1866; *s.* John and Miranda (Allen) A.; reared on farm; *m.* Isabel B. Godin, June 4, 1903; B.S., Cornell Univ., 1896; M.S.A,. 1897. Ph.D., 1902. Sigma Xi.

Anderson, Oscar Gustaf, asst. prof. hort., Purdue Univ., LaFayette, Ind.
Instr. agr., high-sch., Sutton, Mass., 1913–4; instr. pom., Purdue Univ., 1914–7; asst. prof. hort., 1917—. *b.* Gardner, Mass., Aug. 5, 1888; *s.* Gustaf and Emma (Swenson) A.; reared on farm. B.S., Mass. Agr. Coll., 1913. Kappa Sigma.

Anderson, Paul Johnson, assoc. prof. bot. and assoc. plant path. Exp. Sta., Mass. Agr. Coll., Amherst, Mass.
Instr. bot., Mass. Agr. Coll., 1915; asst. prof., 1916; assoc. prof., 1916—; assoc. plant path., Exp. Sta., 1916—. *b.* Ladoga, Ind., Mar. 27, 1884; *s.* Wm. L. and Ora (Johnson) A.; reared on farm; *m.* Helen L. Fisherdick, Jul. 18, 1917. A.B., Johnson Bible Coll., 1908; A.B., Wabash Coll., 1910; Ph.D., Cornell Univ., 1914. Phi Beta Kappa; Sigma Xi.

Anderson, Raymond, teach. agr., Mayville, N. Y.
Instr. poultry, St. Lawrence Sch. Agr., 1914–5; princ. and teach. agr., high-sch., Jeffersonville, N. Y., 1916–8; teach. agr., high-sch., Mayville, 1918—. *b.* Jeffersonville, N. Y., Feb. 10, 1889; *s.* E. J. and Julia (Layton) A.; reared on farm; *m.* Marion Kingsley, Aug. 22, 1917. Grad. St. Lawrence Univ., 1914.

Anderson, Rudolph J., chem., N. Y. State Exp. Sta., Geneva, N. Y.
Assoc. chem., N. Y. State Exp. Sta., 1911—. Speciality, organic phosphorus compounds in cereals. In U. S. Army, 1918—. *b.* Harna, Sweden, Sept. 13, 1879 (naturalized 1914); *s.* Anders and Johanna (Johanson) A.; reared on farm. B.S., Tulane Univ., New Orleans, 1906.

Anderson, Walter Sewell, prof. genetics, Univ. Ky., Lexington, Ky.
Princ. Alleghany Collegiate Inst., Alderson, W. Va., 1896–1903; prof. chem., Ky. Wesleyan Coll., 1903–13; present position, 1913—. *b.* Academy, W. Va., Sept. 18, 1867; *s.* John Mason and Nancy (Williams) A.; reared on farm; *m.* Lester C. Hogsett, June 19, 1901; *c.* Walter Southall, Lindson Pryor, Lester Gayle. M.A., Randolph-Macon Coll., 1896.

Andrew, Herbert Leo, co. agrl. agt., Van Wert, O.
Asst. farm manag., Ohio Exp. Sta., 1915–7. *b.* near Dayton, O., Nov. 6, 1892; *s.* James E. and Mary (Darst) A.; reared on farm; *m.* Esta M. Batdorf, 1917. B.Sc., Ohio State Univ., 1915.

Andrews, Henry Wilson, co. agrl. agt., Sparta, Tenn.
Farmer, Tenn., 15 yrs. Sec.-treas. Linwood Lamb Club. *b.* Watertown, Tenn., Sept. 24, 1885; *s.* M. J. and Ida (Turner) A.; reared on farm; *m.* Iona Gilliam, Feb. 22, 1917; *c.* Geo. Wilson. Peabody Coll., 1908; Cumberland Univ., 1912.

Andrews, Walter Edwin, assoc. ed. The Farm Journal, Philadelphia, Pa.
Fruit farmer, Mich., 12 yrs.; present position, 1905—. *Auth.:* The Orchard Book, 1906; The Garden Book, 1908; Shall I Farm, 1910. *b.* Cleveland, O., Jan. 31, 1866; *s.* Theo. A. and Marie L. (Provost) A.; *m.* Flora A. Stevens, May 31, 1888; *c.* Grace A., Howard E.

Anspon, B. W., assoc. prof. flor. and lands. gard., Md. Agr. Coll., College Park, Md.
Asst. prof. hort., Miss. A. & M. Coll., 1910–2; present position, 1912—. Greenhouse work, J. B. Hess Co., Dayton, O., 1905–6; lands. dept., Nat. Cash Register Co., Dayton, Mar.–Sept. 1906. *b.* Dayton, O., Dec. 13, 1886; *s.* John B. and Olga N. A.; reared in city; *m.* Emma Bascomb Davis, Nov. 11, 1915. B.S., Ohio State Univ. Gamma Phi; Alpha Pi Upsilon.

Anthony, Ernest Lee, assoc. prof. dairy husb., Penn. State Coll., State College, Pa.
Asst. dairy husb., Penn. State Coll., 1912–4; instr., 1914–6; prof., 1916–8; assoc. prof., 1918—. *Auth.:* Dairy Labora-

tory Manual, 1914. *b.* Comstock, Neb., Sept. 6, 1888; *s.* Homer G. and Anna Elizabeth (Shoush) A.; reared on farm; *m.* Goldie R. Swift, Aug. 7, 1914; *c.* Helen Louise. B.S., Univ. Mo., 1912; M.S., Penn. State Coll., 1914. Gamma Sigma Delta.

Anthony, Roy David, assoc. hort., N. Y. Agr. Exp. Sta., Geneva, N. Y.

Asst. and instr. pom., Cornell Univ., 1910–3; present position, 1913—. *b.* Rochester, N. Y., Apr. 2, 1884; *s.* Daniel M. and Charlotte R. (Finch) A.; reared in city; *m.* Marian Salisbury, Aug. 8, 1911; *c.* Gertrude Finch, David Salisbury. B.S., Univ. Rochester, 1908; B.S.A., Cornell Univ., 1910; M.S.A., 1913. Phi Beta Kappa; Psi Upsilon; Gamma Alpha.

App, Frank, assoc. prof. agron. in chg. of dept., acting asst. dir. ext., Rutgers Coll., New Brunswick, N. J.

Asst. agron., Penn. State Coll., 1911–2; asst. prof. agron., N. H. A.&M. Coll., 1912–3; present position, 1915—. Farm help specialist; sec.-treas. N. J. Alfalfa Assoc.; administration com., N. J. Agr. Exp. Sta.; chm. Building and Grounds Com. *b.* Buffalo Roads, Union Co., Pa., Jan. 26, 1886; *s.* E. S. and Sarah (Miller) A.; reared on farm. B.S. Penn. State Coll., 1911; grad student, Cornell Univ., 1914–6. Alpha Gamma Rho; Phi Kappa Phi; Lambda Chi Alpha.

Archibald, E. S., Dominion an. husb., Cent. Expl. Farm, Ottawa, Ont.

Prof. agr., N. S. Agr. Coll., 1909–12; present position, 1912—. *b.* Yarmouth, N. S., May 12, 1885; *s.* E. E. and Mary (Spinney) A.; reared on farm; *m.* L. Louise Moorman, Dec. 16, 1913. B.A., Acadia Univ., Wolfville, N. S., 1905; B.S.A., Toronto Univ., 1908.

Archibald, Robert Murray, missionary sec., Methodist Conference, Birmingham, Ala.

Special attention to development of religious, educ., social and econ. interests of rural communities. *b.* Dickens Co., Ala., Jan, 28, 1869; *s.* Robt. W. and Salena (Herndon) A.; reared on farm; *m.* Loula Freiley, June 22, 1893; *c.* Miriam, Julia Belle, Lambuth, Elizabeth.

Arehart, Albert Zay, co. agrl. agt., Auburn, Ind.

Instr. agr., Benson high-sch., Minn., 1912–6; agt. DeKalb Co., Ind., 1916—. *b.* Kendallville, Ind., Aug. 28, 1885; *s.* Geo. and Minnie (Owen) A.; reared on farm; *m.* Ida Jorstad, June 22, 1915; *c.* Ellen Minnie. B.S.A., Purdue Univ., 1912.

Armsby, Henry Prentiss, dir. Inst. An. Nutr., Penn. State Coll., State College, Pa.

Instr. chem., Worcester Poly. Inst., 1871–2; teach. high-sch., Fitchburg, Mass., 1874–5; asst. chem., Rutgers Coll., 1876–7; chem., Conn. Exp. Sta., 1877–81; vice-pres. Storrs Agr. Sch., 1881–3; prof. agrl. chem., Univ. Wis., 1883–7; dir. Penn. Exp. Sta., 1887–1907; present position, 1907—. Expert an. nutr., U. S. Dept. Agr., 1898—. Chm. com. on exp. sta. exhibit, World's Fair, Chicago, 1893, Paris Expos., 1900; mem. Comn. on Agrl. Research, 1906–8. Pres. Assoc. Am. Agr. Colls. and Exp. Stas., 1898–9; pres. Soc. An. Nutr.. 1908–11. Foreign mem., Royal Acad. Agr. of Sweden. *Auth.*: Manual of Cattle Feeding, 1880; Principles of Animal Nutrition, 1903; Nutrition of Farm Animals, 1917; The Conservation of Food Energy, 1918. *b.* Northbridge, Mass., Sept. 31, 1853; *s.* Lewis and Mary A. (Prentiss) A.; reared in town; *m.* Lucy A. Harding, Oct. 15, 1878; *c.* Chas. Lewis, Ernest Harding, Sidney Prentiss, Henry Horton, Edward McClellan. B.S., Worcester Poly. Inst., 1871; Ph.B., Yale Univ., 1874; Ph.D., 1879; LL.D., Univ. Wis., 1904.

Arnett, Ralph Edward, co. agrl. agt., Danville, Ind.

b. New Richmond, Ind., Dec. 12, 1891; *s.* Albert J. and Elizabeth (McBroom) A.; reared on farm; *m.* Miriam E. Hostetter, June 25, 1918. B.S.A., Purdue Univ., 1914; M.S., Ia. State Coll., 1917. Alpha Gamma Rho; Alpha Zeta; Sigma Delta Chi; Phi Kappa Phi; Gamma Sigma Delta.

Arnold, Jacob Hiram, agrst., Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.

Prof. math., Redfield Coll., S. D., 1891–3; prof. econ. and hist., 1893–1904; farm manag., Kans., 1906–14. *b.* Defiance, O., June 8, 1864; *s.* F. D. and Mary (Lehman) A.; reared on farm; *m.* Bertha Jean Harris, 1894; *c.* Mary Elizabeth, Anna Harris. A.B., Grinnell Coll., 1891.

Arny, Albert Cedric, assoc. agron. in chg. farm crops, Univ. Minn., University Farm, St. Paul, Minn.

Asst. prof. agron., Univ. Minn., 1909–14; present position, 1914—. *b.* Newport, Minn., Nov. 4, 1877; *s.* Ferdinand and Katrina (Anderson) A.; reared on farm; *m.* Mary K. Hummel, Sept. 5, 1905; *c.* Dorothy W., Frederick P., Deane C. B.S., Univ. Minn., 1909; M.S., 1917. Sigma Xi; Alpha Zeta.

Arrendale, John Virgil, co. agrl. agt., Clayton, Ga.

Princ. Ind. Sch., Rabun Gap, Ga., 1905–6; teach. sci. and mech., 10th Distr. Agrl. Sch., Sparta, Ga., 1908–9; expert farmer, Hayward Indian Sch., Hayward, Wis., 1911. Farm operator. Agt. Rabun Co., 1917—. *b.* Tiger, Ga., Nov. 13, 1879; *s.* Martin L. and Margaret (Smith) A.; reared on farm; *m.* Tallulah Edwards, June 7, 1906; *c.* Clyde, John Virgil Jr., Ruth, Joe. B.S.A., Univ. Ga., 1905.

Arthur, Joseph Charles, prof. emeritus, Purdue Univ., LaFayette, Ind.

Instr. bot., Univ. Wis., 1879–81; Univ. Minn., 1882; bot., N. Y. Exp. Sta., Geneva, 1884–7; prof. bot., Purdue Univ., 1887; prof. veg. physiology and path. and bot. Exp. Sta., 1888–1915; prof. emeritus, 1915—. Fellow A. A. A. S. Pres. Bot. Soc. Am., 1902; pres. Ind. Acad. Sci., 1903. *Auth.*: (with Barnes and Coulter) Handbook of Plant Dissection, 1886; (with MacDougal) Living Plants and Their Properties, 1898; Uredinales in N. Am. Flora. *b.* Lowville, N. Y., Jan. 11, 1850; *s.* Chas. and Ann (Allen) A.; *m.* Emily Stiles Potter, June 12, 1901. B. S., Ia. State Coll., 1872; M.S., 1877; Sc.D., Cornell Univ., 1886, Univ. Bonn, 1896.

Asbahr, Albert Allen, co. agrl. agt., Toledo, Ore.

Head agrl. dept., high-sch., Pendleton, Ore., 1911–4. *b.* Hillsboro, Ore., Oct. 27, 1890; *s.* Julius and Anna (Kramer) A.; reared on farm. B.S.A., Ore. Agr. Coll., 1911; LL.B., Univ. Ore., 1917. Delta Theta Sigma; Phi Delta Theta; Phi Alpha Delta.

Ashby, Robert C., field sec. Amer. Poland-China Record Assoc., Chicago, Ill.

Asst. prof. an. husb., Univ. Minn.; Adj. prof. an. husb., Univ. Neb., 1909–10; supt. farmers' insts., Wash. State Coll., 1910–3; prof. an. husb., 1912–4. *b.* Indianola, Ia., Oct. 10, 1882 *s.* A. C. and Elizabeth (Childers) A.; reared on farm; *m.* Marguerite A. Waldorf, Nov. 26, 1910. B.S.A., Univ. Neb., 1908; A.B., Neb. Wesleyan Univ., 1910; M.S., Univ. Minn., 1915. Phi Delta Theta; Alpha Zeta.

Atkeson, Thomas Clark, prof. emeritus an. husb., W. Va. Univ.; Buffalo, W. Va.

Prof. agr., W. Va. Univ., 1891–3; pres. Morris Harvey Coll., 1893–7; prof. agr. and dean Coll. Agr., W. Va. Univ., 1897–1911; prof. an. husb., 1911–4; prof. emeritus, 1914—. Mem. W. Va. State Bd. Agr., 14 yrs.; master W. Va. State Grange, 22 yrs.; overseer Nat. Grange, 8 yrs.; now chm. exec. com., Nat. Grange. *Auth.*: Book-keeping for Farmers, 1892; A Catechism of Agriculture, 1910; Semi Centennial History of the Patrons of Husbandry, 1916. *b.* Buffalo, W. Va., Feb. 15, 1852; *s.* Thos. and Virginia Harris (Brown) A.; reared on farm; *m.* Cordelia Meek, Jul. 8, 1878; *c.* Thos. Zephaniah, Karl Clark, Mary Meek, Leda Cordelia. LL.B., Univ. Ky., 1874; Ph.D., Morris Harvey Coll., 1897.

Atkinson, Alfred, prof. agron., Univ. Mont., Bozeman, Mont.

Asst. agron., Ia. State Coll., 1902–4; present position, 1904—. Federal Food Administrator for Mont., 1917. Vice-pres. Am. Soc. Agron., 1915. Farm operator, 1907–13. *b.* Seaforth, Ont., Oct. 6, 1879 (naturalized 1911); *s.* Joseph and Isabella (Burns) A.; reared on farm; *m.* Barbara Miller, June 13, 1906. Assoc. diploma, Ont. Agr. Coll., 1901; B.S.A., Ia. State Coll., 1904; M.S., Cornell Univ., 1912. Sigma Xi.

Atkinson, Davis Watson, co. agrl. agt., Media, Pa.

Farmer, 1913–6; agt. Delaware Co., 1916—. *b.* Wrightstown, Pa., Jul. 15, 1891; *s.* Edward and Clara A. (Krusen) A.; reared on farm and in town; *m.* Rachel Styer Conrad, May 23, 1914; *c.* Davis W. Jr., Horace Conrad. B.S.A., Penn. State Coll., 1913. Alpha Zeta; Phi Kappa Phi.

Atkinson, Wilmer, ed. emeritus, Farm Journal, Philadelphia, Pa.

With Howard M. Jenkins started first

daily paper in Del. (Wilmington Daily Commercial), 1866; started Farm Journal, 1877. Served in Civil War. Pres. Pa. Men's League for Woman Suffrage. *b.* Bucks Co., Pa., June 13, 1840; *s.* Thomas and Hannah (Quinby) A.; reared on farm; *m.* Anna Allen, Nov. 28, 1866; *c.* Elizabeth Allen, Emily Q., Gertrude.

Attride, George R., co. agrl. agt. Warm Springs, Va.
b. Katonah, N. Y., Jul. 29, 1892; *s.* Geo. and Mary (Yeatman) A.; reared on farm; *m.* Beatrice Williams, May 11, 1914; *c.* Elisabeth W., Geo. Y. B.S., Cornell Univ., 1914.

Atwater, Charles Edwin, co. agrl. agt., Gladwin, Mich.
b. Ganges, Mich., Jan. 30, 1889; *s.* Edwin Hollis and Emma Nettie (Mack) A.; reared on farm; *m.* Naomia Ella Goodwin, Aug. 10, 1911; *c.* Lela Avis, Chas. Winfield. B.S., Mich. Agr. Coll., 1918.

Atwood, Winfred McKenzie, assoc. prof. bot. and plant path., Ore. Agr. Coll., Corvallis, Ore.
Present position, 1913—. Fellow A. A. A. S. *b.* Aurelia, Ia., Jul. 25, 1883; *s.* J. R. and Clara (McKenzie) A.; reared on farm and in village; *m.* Louise Kent, Jul. 12, 1910; *c.* Margaret Kent, Dorothy McKenzie. A.B., Cornell Coll., Ia., 1907; A.M., 1910; M.S., Univ. Chicago, 1911; Ph.D., 1913. Sigma Xi; Gamma Sigma Delta.

Aubry, Victor George, expert agrst., N. J. Exp. Sta., New Brunswick, N. J.
Instr. an. husb., Univ. Me., 1912–4; asst. prof., 1913–4; present position, 1914—. Traveled in Europe, 2½ yrs. *b.* Brooklyn, N. Y., Feb. 25, 1891; *s.* Eugene and Alice (Schinker) A.; reared on farm; *m.* Marcella J. March; *c.* Victor G. Jr. B.S., Conn. Agr. Coll., 1912. Phi Gamma Delta; Alpha Zeta.

Auchter, Eugene Curtis, asst. prof. hort. and asst. hort. Exp. Sta., W. Va. Univ., Morgantown, W. Va.
b. Elmgrove, N. Y., Sept. 14, 1889; *s.* Wm. D. and Florence Monroe (Curtis) A.; reared on farm; *m.* Catherine Elizabeth Beaumont, Aug. 25, 1914. B.S.A., Cornell Univ., 1912; M.S.A., 1918. Sigma Xi; Alpha Zeta.

Aull, William Barre, asst. prof. bact., Clemson Agr. Coll., Clemson College, S. C.
Princ. Pendleton high-sch., 1908–9; seed analyst, S. C. State Dept. Agr., 1910–1; asst. bot., Clemson Agr. Coll., 1912–5; asst. prof. bact., 1915—. *b.* Newberry, S. C., Mar. 24, 1887; *s.* Wm. Benj. and Mary E. (Barre) A.; reared farm and small town. B.S., Clemson Agr. Coll., 1907; student Univ. Va., 1909–10.

Aust, Franz A., asst. prof. lands. design, Univ. Wis., Madison, Wis.
Asst. lands. design., Univ. Mich., 1912–3; instr., Univ. Ill., 1913–5; present position, 1915—. Specialty, farm planning, rural community center planning. *b.* Defiance, O., May, 1885; *s.* August and Hermina (Herolz) A.; *m.* Mabel A. Armstrong, Aug. 26, 1914; *c.* Alden Franz. B.A., Univ. Minn., 1908; M.S., 1910. Tau Delta Sigma; Phi Delta Kappa.

Ayers, S. Henry, bact., Dairy Div., U. S. Dept. Agr., Washington, D. C.
Asst. bact., Univ. Chicago, 1905–6; present position, 1908—. *b.* Greenland, N. H., Feb. 17, 1884; *s.* Mark W. and Belle Florence (Folsom) A.; reared on farm. S.B., Mass. Inst. Tech., 1905. Sigma Xi.

Ayres, Ed Lee, chief insp. orchards and nurseries, Tex. Dept. Agr., and chg. citrus canker eradication, Houston, Tex.
b. DeLeon, Tex., Oct. 2, 1892; *s.* C. R. and Laura (Neal) A.; reared on farm; *m.* Bertha Blumberg, Oct. 27, 1917. B.S., Tex. A. & M. Coll., 1914.

B

Baade, Hermann Joseph, co. agrl. agt., Napa, Calif.
Princ. Wynnewood, Okla., high-sch., 1910–1; instr. sci., Sweet Grass Co. high-sch., 1911–2; instr. sci. and math., San Diego Army and Navy Acad., 1912–3; teacher sci. and agr., Napa high-sch., 1913–4; Napa Co. farm adv. and co. agt., 1914–. *b.* Tulare, S. D., Sept. 5, 1887; *s.* Heinrich and Henrietta (Kuhlmann) B.; reared on farm; *m.* Carrie H. Tissin; *c.* Robt. Tissin. B.S., Okla. A. & M. Coll., 1910; grad. work, Univ. Calif.

Babcock, Ernest B., prof. genetics, Univ. Calif., Berkeley, Calif.

Instr. agr., Los Angeles State Normal Sch., 1906–7; instr. plant path., Univ. Calif., 1907–8; asst. prof. agrl. educ., 1908–13; prof. genetics, 1913—. *Auth.*: Genetics in Relation to Agriculture, 1918 (with Clausen). Mem. ed. com., Univ. Calif. pub. in agrl. sci. *b.* Edgerton, Wis., Jul. 10, 1877; *s.* Emilius W. and Mary E. (Brown) B.; reared in small town; *m.* Georgia Bowen, June 24, 1908. B.S., Univ. Calif., 1906; M.S., 1911. Phi Beta Kappa; Sigma Xi; Alpha Zeta.

Babcock, Frank Ray, co. agrl. agt., Crosby, N. D.

Chg. cereal invest., Substa. Farm, Williston, N. D., 1908–17. *b.* Hastings, Mich., Feb. 28, 1882; *s.* Alva DeWayne and Alice Mary (Powers) B.; reared on farm; *m.* Gracia Loverna Kelsey, Nov. 10, 1910. B.S.A., N. D. Agr. Coll., 1908.

Babcock, Howard Edward, farm bur. dir., Cornell Univ., Ithaca, N. Y.

Teach. agr., Albion high-sch., 1911–2; teach. biol., Elmira high-sch., 1912–3; agrl. agt., Cattaraugus Co., 1913–4; agrl. agt., Tompkins Co., 1914–5; asst. farm bur. dir., 1915–7; dir., 1917–; dir. Bur. Food Conservation, State Food Comn., 1917–. Fed. farm help specialist for U. S. Dept. Agr. Sec. N. Y. State Fed. of Farm Bur. Assocs. *b.* Gilbertsville, N. Y., Feb. 23, 1889; *s.* Howard W. and Mary E. (Donahue) B.; reared on farm; *m.* Hilda W. Butler, Oct. 23, 1913; *c.* Howard E. Jr. B.S., Syracuse Univ., 1911. Delta Chi.

Babcock, Stephen Moulton, prof. agrl. chem. emeritus, Univ. Wis., Madison, Wis.

Instr. chem., Cornell Univ., 1875–7, 1881–2; chem., N. Y. Exp. Sta., Geneva, 1882–8; prof. agrl. chem., Univ. Wis., 1888–1913; emeritus, 1913–; chief chem., Wis. Exp. Sta., 1888–1913; asst. dir., 1901–13. Fellow A. A. A. S. Developed the "Babcock test" for butter-fat. *b.* Bridgewater, N. Y., Oct. 22, 1843; *s.* Peleg B. and Cornelia (Scott) B.; *m.* May Crandall, Oct. 27, 1896. A.B., Tufts Coll., 1866; Ph.D., Univ. Goettingen, 1879; LL.D., Tufts Coll., 1901; Sc.D., Univ. Wis., 1917.

Bachtell, Myron Ansel, asst. prof. ext. serv. in soil fert., Ohio State Univ., Columbus, O.

Present position, 1911—. *b.* Medina, O., Dec. 23, 1886; *s.* Samuel and Melva M. (Bowen) B.; reared on farm. B.S.A., Ohio State Univ., 1911. Alpha Zeta.

Backstrom, John Floyd, co. agrl. agt., Fayetteville, Ark.

Asst. agron., Miss. A. & M., Coll., 1914–6; prof. agr., Bolton Coll., Brunswick, Tenn., 1916–7; present position, 1917—. *b.* Richton, Miss., May 31, 1888; reared on farm. B.S.A., Miss. A. & M. Coll., 1914.

Baer, Arthur Christopher, prof. dairy husb., Okla. A. & M. Coll., Stillwater, Okla.

Asst. dairy dept., Univ. Wis., 1911–2; instr., 1912–6; present position, 1918—. *b.* Washington Co., Wis., Feb. 4, 1884; *s.* Nicholas and Helena (Bauer) B.; reared on farm; *m.* Anna Riesch, Nov. 20. 1911 (d. 1912); 2d, Flora M. Brandenburg, Sept. 19, 1914. B.S.A., Univ. Wis., 1911, Alpha Zeta.

Baer, Philip Jr., farmer, Dover, O.

b. Dover, O., Sept. 28, 1870; *s.* Philip and Sarah A. (Welty) B.; reared on farm; *m.* Anna L. Underwood, Mar. 3, 1898. B.S.A., Ohio State Univ., 1897.

Bagwell, J. F., distr. agrl. agt., College Station, Tex.

Teach. rural schs., 5 yrs.; teach. math., high-sch., Center, Tex., 1 yr.; teach. agr., high-sch., Joaquin, 2 yrs. *b.* 'Gwinette Co., Ga., Aug. 8, 1879; *s.* J. N. and Mary B.; reared on farm; *m.* Clara Duke, Sept. 4, 1904.

Bailey, Clyde H., assoc. prof. agrl. biochem., Univ. Minn., University Farm, St. Paul, Minn.

Asst. in grain standardization, U. S. Dept. Agr., 1907–11; present position, 1911—. *b.* Minneapolis, Minn., Apr. 15, 1887; *s.* Geo. W. and Sophie A. (McKenney), B.; reared in city; *m.* Annie L. Wilkins, June 20, 1910; *c.* Barbara Anne. B.S.A., N. D. Agr. Coll., 1913; M.S., Univ. Minn., 1916. Sigma Xi; Alpha Zeta; Gamma Sigma Delta.

Bailey, Ernest Winfeld, asst. prof. pom. and asst. chief pom. and plant-breeding, Univ. Ill., Urbana, Ill.

Asst, instr. pom., Mass. Agr. Coll., 1908; instr. pom., Univ. Ill., 1909–11; assoc., 1911–4; present position, 1914—. *b.* Worcester, Mass., Mar. 28, 1885; *s.* Henry Densmore and Ella Elizabeth (Ware) B.; reared on farm and in city; *m.* Edith Amy

Bullock, Sept. 14, 1910; *c.* Winfield Henry, Muriel Elizabeth. B.S., Mass. Agr. Coll., 1908; B.S., Boston Univ., 1908; M.S., Univ. Ill., 1909; grad. student, Univ. Calif., 1918. Sigma Xi; Kappa Sigma; Phi Kappa Phi.

Bailey, Liberty Hyde, auth. and ed., Ithaca, N. Y.

Prof. hort. and lands. gard., Mich. Agr. Coll., 1885–8; prof. hort., Cornell Univ., 1888–1903; dean and dir. Coll. Agr., 1903–13. Awarded Veitchian Medal, Royal Hort. Soc., 1898; chm. Roosevelt Comn. on Country Life, 1908. Fellow A. A. A. S., and Am. Acad. Arts and Sci.; mem. Am. Phil. Soc., and Nat. Acad. Sci.; hon. mem. Royal Hort. Soc. London, Hort. Soc. Norway, Japan Agrl. Soc., Hort. Soc. Japan. Pres. Am. Nature-Study Soc.; pres. Am. Pom. Soc., 1917—. *Auth.:* Annals of Horticulture, 1889–93 (5 vols.); Nursery-Book, 1891; Plant-Breeding, 1895, rev. 5th ed. by A. W. Gilbert, 1915; Survival of the Unlike, 1896; Forcing-Book, 1897; Principles of Fruit-Growing, 1897, rev. 20th ed. 1915; Principles of Agriculture, 1898; Evolution of Our Native Fruits, 1898; Lessons with Plants, 1898; First Lessons with Plants, 1898; Botany, An Elementary Text for Schools, 1900; Practical Garden-Book, 1900 (with C. E. Hunn); Principles of Vegetable-Gardening, 1901; The Nature-Study Idea, 1903, rev. 3d ed. 1909; Outlook to Nature, 1905, rev. 1911; The State and the Farmer, 1908; The Training of Farmers, 1909; Beginners' Botany, 1909; Manual of Gardening, 1910 (founded on Garden-Making, first pub. in 1898); Farm and Garden Rule-Book, 1911 (founded on The Horticulturist's Rule-Book, first pub. in 1889); The Country-Life Movement, 1911; York State Rural Problems I, 1913, II, 1915; The Holy Earth, 1915; Pruning-Manual, 1916 (being 18th ed. of Pruning-Book, first pub. 1898); Wind and Weather (verse), 1916; Universal Service, 1918; and others. *Ed.,* Cyclopedia of American Horticulture, 4 vols.; Cyclopedia of American Agriculture, 4 vols.; Standard Cyclopedia of Horticulture, 6 vols.; Rural Science Series; Rural Text-Book Series; Rural Manual Series. *b.* S. Haven, Mich., Mar. 15, 1858; *s.* Liberty Hyde and Sarah (Harrison) B.; reared on farm; *m.* Annette Smith, June 6, 1883; *c.* Sara May, Ethel Zoe. B.S., Mich. Agr. Coll., 1882; M.S., 1886; LL.D., Univ. Wis., 1907; Alfred Univ., 1908. Sigma Xi; Phi Delta Theta.

Bain, Jesse Burdette, dairy husb., U. S. Dept. Agr., Washington, D. C.

Instr. an. husb., Cornell Univ., 1913–4. *b.* Kennedy, N. Y., Mar. 27, 1882; *s.* Alonzo and Arvilla E. (Morse) B.; reared on farm; *m.* Edna Wallace Hare, Mar. 30, 1910; *c.* Mary Burdette. A.B., Univ. Mich., 1907.

Baird, Harry Silversides, asst. prof. dairy ind., Univ. Calif., Davis, Calif.

Sec.-treas. Western Dairy Instr. Assoc. *b.* Marquette, Kans., June 6, 1888; *s.* Olin Wilber and Lottie Charlotte (Rink) B.; reared on farm; *m.* Edna May Beaulieu, June 4, 1913; *c.* Frederic Silversides. B.S.A., Kans. State Agr. Coll., 1911. Kappa Delta Phi.

Baker, A. Flem, co. agrl. agt., Elkton, Ky.

b. near Platte City, Mo., Jan. 27, 1893; *s.* Dillard and Mary E. (Offutt) B.; reared on farm; *m.* Grace Pearl Cooper, Apr. 26, 1917. B.S.A., Univ. Mo., 1917.

Baker, Arthur Challen, ent. asst., Bur. Ent., U. S. Dept. Agr., Washington, D. C.

Ed. Proceedings Ent. Soc. of Washington. *b.* Belleville, Ont., Feb. 5, 1885; *s.* Jacob J. and Ida E. (Fitch) B.; reared in town; *m.* Ruth Thornton Stoddard, 1914; *c.* Wenona Jean. B.S.A., Ont. Agr. Coll. and Univ. Toronto, 1911; Ph.D., George Washington Univ., 1918.

Baker, Charles Walter, co. agrl. agt., Kingstree, S. C.

b. Marion, S. C., Sept. 9, 1892; *s.* Jas. Robt. and Mary (Monroe) B.; reared on farm. B.S., Clemson Agr. Coll., 1914.

Baker, Ernest Leroy, co. agrl. agt., Batavia, N. Y.

Farm manag., 1909—. Employed Adv. Registery Assoc., 1908–9; asst. Tompkins Co. Survey; teach. agr., Perry, N. Y., 1912–7; agt., Genesee Co., 1917—. *b.* New Hudson, N. Y., Feb. 5, 1884; *s.* Benton H. and Carrie M. (Harris) B.; reared on farm; *m.* Ethel R. Brower, June, 1915. B.S.A., Cornell Univ., 1909.

Baker, Herbert Jonathan, dir. agrl. ext. serv., Conn. Agr. Coll., Storrs, Conn.

Asst. instr. agron., Mass. Agr. Coll., 1911–2; sec. to dir. Mass. Exp. Sta., 1911–2; asst. co. agt. leader and farm

manag. dem., Mass. Agr. Coll., 1912–5; present position, 1915—. Dir. farmers' inst. for Conn. Mem. exec. com., Am. Farm Manag. Assoc., 1915–6. *b.* Selbyville, Del., Apr. 15, 1885; *s.* Seth M. and Margaret E. (Holloway) B.; reared on farm; *m.* Martha Chaplin Noyes, Oct. 7, 1916; *c.* Jonathan Chaplin. B.S., Mass. Agr. Coll. Kappa Sigma.

Baker, John Clark, assoc. chem., N. Y. Agr. Exp. Sta., Geneva, N. Y.

Prof. sci., N. Mex. Normal Univ., 1910–3; asst. chem., Columbia Univ., 1913–6; present position, 1916—. Specialty, enzyme action, dairy chem. *b.* Ridgeway, Ia., Aug. 11, 1884; *s.* G. R. and E. Estella (Bolles) B.; reared in country town; *m.* Maude E. Wimber, Aug. 9, 1911; *c.* Elizabeth Anne. B.S., Upper Ia. Univ., 1910; M.A., Columbia Univ., 1915; Ph.D., 1916. Sigma Xi; Phi Lambda Upsilon.

Baker, Oliver Edwin, agrst., Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.

b. Tiffin, O., Sept. 10, 1883; *s.* Edwin and Martha (Thomas) B.; reared in small town. B.Sc., Heidelberg Coll., Tiffin, O., 1903; M.Sc., 1904; M.A., Columbia Univ., 1905; student Yale For. Sch., 1907–8; Univ. Wis., 1908–12.

Baker, Raymond K., prof. poultry husb., Univ. Sask., Saskatoon, Sask.

Teach. public schs., 1902–3; rancher, Medicine Hat, Alta, 1903–6; homesteader, Waseca, Sask., 1906–13; asst. prof. poultry husb., Univ. Sask., 1913–6; prof., 1916—. *b.* Trenton, Ont., Nov. 17, 1876; *s.* Wm. F. and Frances Anne (Funnell) B.; reared on farm; *m.* Lena Myrtle McGee, Apr. 3, 1907; *c.* Bryan R., Constance R., Frances Beth, Wm. Herbert. B.A., Univ. Man., 1900.

Baker, Warren Sears, co. agrl. agt., Brockton, Mass.

Instr. agron., summer sch., Mass. Agr. Coll., 1915; truck farmer, Fla., 1915–7. *b.* Wollaston, Mass., Mar. 24, 1891; *s.* Chas. Thatcher and Ruth Lillian (Ridings) B.; reared in town and on farm; *m.* Hannah Mary Griffin, Jan. 10, 1916; *c.* Warren S. Jr. B.S., Mass. Agr. Coll., 1914.

Balcomb, Ernest Elwell, head dept. rural econ., State Normal and Ind. Coll., Greensboro, N. C.

State fertilizer insp., Univ. Calif., 1903–5; dept. agr., State Normal Sch., Weatherford, Okla., 1905–8; chg. dept. agr. for public schs., Okla. A.&M. Coll., 1908–9; state lect. on agrl. educ., Neb. State Dept. Educ., 1909. Mem. Nat. Council Educ., N. C. Acad. Sci. Pres. Dept. Rural and Agrl. Educ., Nat. Educ. Assoc.; sec. Nat. Com. on Agrl. Educ., 6 yrs.; mem. com. to confer with Pres. Roosevelt on agrl. educ., 1908. *b.* Broom Co., N. Y., June 3, 1866; *s.* Francis and Lydia (Goodnoo) B.; reared on farm; *m.* Alona Wixson, Sept. 4, 1894. A.B., Stanford Univ., 1903; grad. student, Harvard Univ., Univ. Calif., Teachers' Coll., Columbia Univ.

Baldwin, Robert James, dir. ext., Mich. Agr. Coll., E. Lansing, Mich.

Teach. sci., Traverse City high-sch., 1907–9; asst. to Dean Agr., Mich. Agr. Coll., 1910–3; ext. dir., 1913—. *b.* Brown City, Mich., Oct. 31, 1883; *s.* James and Priscilla (Peart) B.; reared on farm; *m.* Bertha L. Van Orden; *c.* Dorothy Jane, Robert James Jr. B.S., Mich. Agr. Coll., 1904.

Ball, Carleton Roy, cerealist in chg. Off. Cereal Invest., U. S. Dept. Agr., Washington, D. C.

Asst. bot., Ia. State Coll., 1896–8; asst. agrostologist, U. S. Dept. Agr., 1899–1906; agron., 1906–18. Fellow A.A.A.S. Sec. Am. Soc. Agron., 1909–14, pres., 1916. *b.* Little Rock, Ia., June 12, 1873; *s.* Leroy Augustus and Mary (Mansfield) B.; reared on farm; *m.* Bertha F. Steward, June 14, 1904; *c.* Carolyn Steward, Robt. Steward. B.Sc., Ia. State Coll., 1896; M.Sc., 1899. Phi Kappa Phi.

Ball, Elmer Darwin, state ent., State Capitol, Madison, Wis.

Asst. zool. and ent., Ia. State Coll., 1895–7; assoc. prof., Colo. Agr. Coll., 1897–1902; prof., Utah Agr. Coll., 1902–7; dean Sch. Agr., dir. Exp. Sta., 1907–17; present position, 1917—. Fellow A.A.A.S. Pres. Utah Acad. Sci., 1910; pres. Pacific Slope Assoc. Econ. Ent., 1917; pres. Am. Assoc. Econ. Ent., 1918. Mem. State Hort. Comn. of Utah; mem. State Bd. Horse Comnrs. of Utah. *b.* Athens, Vt., Sept. 21, 1870; *s.* Leroy A. and Mary

(Mansfield) B.; reared on farm; *m.* Mildred R. Norrell, June 14, 1899. B.S., Ia. State Coll., 1895; M.S., 1898; Ph.D., Ohio State Univ., 1907. Sigma Xi; Phi Kappa Phi; Gamma Sigma Delta.

Ballantyre, Alando B., co. agrl. agt., Thatcher, Ariz.

Instr. Utah Agr. Coll. and supt. S. Utah Exp. Farm, 1910–4; co. agt. Utah Co., 1914–6; agt. Graham-Greenlee Co., Ariz., 1916—. *b.* Draper, Utah, Jul. 18, 1884; *s.* Richard Alando and Mary Ann (Stewart) B.; reared on farm and in town; *m.* Mary Ann Jones, Jul. 1, 1914; *c.* Imogen, Alando J. B.S., Utah Agr. Coll., 1910.

Ballard, Clinton Vede, co. agrl. agt., Iron Mountain, Mich.

b. near Ithaca, Mich., Oct. 29, 1887; *s.* Chas. and Helen (Pierce) B.; reared on farm; *m.* Marjorie George, Dec. 30, 1914; *c.* Mary Elizabeth, Marjorie Jean, Robt. Cole. B.S., Mich. Agr. Coll.

Ballard, Walter Raymond, emergency dem. agt. and garden specialist, States Relations Serv., College Park, Md.

Asst. hort., Md. State Exp. Sta., 1906–11; pom., 1912–8; present position, 1918—. *b.* McLean Co., Ill., May 8, 1878; *s.* James H. and Mina (Holcomb) B.; reared on farm. B.S., Kans. State Agr. Coll., 1905.

Ballard, William Salisbury, plant path., fruit disease invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

b. Platteville, Wis., May 29, 1881; *s.* James H. and Elizabeth (Carpenter) B.; reared in town. A.B., Univ. Ill., 1904. Sigma Xi.

Balmer, Frank Everett, state co. agt. leader, Univ. Minn , University Farm, St. Paul, Minn.

Farm manag., 1906–9; dir. agr., Lewiston Consolidated Schs., Minn., 1909–11; princ. La Crosse Co. Sch. Agr., Onalaska, Wis., 1911–3; distr. superv. co. agts., W. Cent. Minn., 1913–4; present position, 1914—. *b.* Woodston, Kans., Oct. 29, 1883; *s.* Elmer D. and Mary (Jenks) B.; reared on farm; *m.* Bertha Mabel Eastman, Aug. 25, 1910. B.S., Kans. State Agr. Coll., 1905.

Bancroft, Ross L., assoc. prof. soils, Ia. State Coll., Ames, Ia.

Farm foreman, Univ. Wyo., 1913–5; asst. prof. soils, Ia. State Coll., 1915–7; assoc. prof., 1917—. *b.* Garrettsville, O., Dec. 25, 1889; *s.* O. L. and Flora M. (Clarke) B.; reared on farm. B.S., Univ. Wyo., 1914; M.S., Ia. State Coll., 1915. Alpha Tau Omega; Alpha Zeta; Phi Kappa Phi.

Bane, Juliet Lita, asst. prof. home econ., Wash. State Coll., Pullman, Wash.

Dir. household arts, Y. M. C. A., Omaha, Neb., 1912–4; instr. home econ., Wash. State Coll., 1914–5; asst. prof., 1915—. *b.* near Dana, Ill., Sept. 15, 1887; *d.* M. Milton and Florence (Clegg) B.; reared on farm. B.S., Univ. Ill., 1912; M.A., Univ. Chicago, 1918. Gamma Phi Beta; Kappa Delta Pi.

Banks, George Heartsill, co. agrl. agt., Newport, Ark.

Agrst., Bolton Coll., Brunswick, Tenn., 1914–5; princ. and agrst., high-sch., Villisca, Ia., 1915–7; agt. Jackson Co., Ark., 1917—. In U. S. Navy, 1918—. *b.* Raines, Tenn., Feb. 15, 1893; *s.* Wm. Love and Lucy (Heartsill) B.; reared in city suburbs; *m.* Gertrude Alice Brodrick, Jul. 17, 1917. B.S.A., Univ. Mo., 1914.

Banks, King Lemuel, co. agrl. agt., Walnut Ridge, Ark.

b. Raines, Tenn., Jul. 4, 1894; *s.* Wm. Love and Lucy (Heartstill) B.; reared on farm; *m.* Hazel Davies, Apr. 15, 1917; *c.* one daughter. B.S.A., Univ. Mo., 1916. Sigma Phi Epsilon.

Banta, Luther, instr. poultry husb., N. Y. State Sch. Agr., Alfred, N. Y.

Present position, 1915—. *b.* Amsterdam, N. Y., Nov. 2, 1893; *s.* Geo. S. and Minnie (Blood) B.; reared in town; *m.* Emily N. Johnson, Dec. 22, 1914; *c.* Elizabeth Marguerite. B.S., Cornell Univ., 1915. Sigma Pi.

Barber, Bert, co. agrl. agt., N. Platte, Neb.

Expert in corn work for Argentine govt., 1913–5; farmer, 1915–7; co. agt., 1918—. Sec. W. Neb. Improved Live-Stock Breeders' Assoc., 1918; pres. Garden Co. Fair Assoc., 1917. Traveled in Europe, S. America. *b.* Lewellen, Neb., Oct. 18, 1889; *s.* F. H. and Carie E. (Clark) B.; reared on farm; *m.* Alice M. Birge, Apr. 15, 1915; *c.* Alberta. B.S.A., Univ. Neb., 1912. Phi Delta Theta; Alpha Zeta.

Barker, Elmer Eugene, asst. prof. plant-breeding, Cornell Univ., Ithaca, N. Y.

Asst. geol., Cornell Univ., 1910; asst. ent., 1911–2; asst. plant-breeding, 1913–4; instr., 1914–5; asst. prof., 1915—. *b.* Crown Point, N. Y., Dec. 31, 1886; *s.* Elmer John and Harriet Barnes (Griggs) B.; reared on farm; *m.* Sept. 4, 1916; *c.* Stephen Middleton. A.B., Cornell Univ., 1910; Ph.D., 1914.

Barker, Joseph F., prof. agrl. chem. and soils, Ohio State Univ., Columbus, O.

Instr. soils, Ia. State Coll., 1908–9; asst. prof. soils, 1909–11; agron., N. Y. Exp. Sta., Geneva, 1911–7; present position, 1917—. *b.* Athens, O., Aug. 13, 1884; *s.* Joseph and Harriet Amanda (Baker) B.; reared on farm; *m.* Sophie Hargis, Jul. 26, 1910. B.S.A., Ohio State Univ., 1908; M.S.A., Ia. State Coll., 1910. Alpha Zeta.

Barnard, Harry Everett, state food and drug comnr. and fed. food administrator for Ind., State House, Indianapolis, Ind.

Asst. chem., N. H. Exp. Sta., 1899; asst. chem., U. S. Smokeless Powder Factory, Indian Head, Md., 1900–1; chem., N. H. State Bd. Health, 1901–5; chem., Ind. State Bd. Health, 1905—. state food and drug comnr., 1907—; state comnr. weights and measures, 1911—; food and drug insp. chem., U. S. Dept. Agr., 1907—. Pres. Ind. Sanitary and Water Supply Assoc.; sec. Ind. branch, Nat. Conservation Assoc., Am. Chem. Soc. *b.* Dunbarton, N. H., Nov. 14, 1874; *s.* Nelson H. and Celestia A. (Rider) B.; *m.* Marion Harvie, June 20, 1901; *c.* Harvie, Marion. B.S., N.H.A.&M. Coll., 1899; Ph.D., Hanover Coll., 1913.

Barnes, John R., farmer, Wallingford, Conn.

Fruit-grower, 30 yrs.; nurseryman, 25 yrs. *b.* Cheshire, Conn., May 20, 1867; *s.* James and Sarah E. (Pennewell) B.; reared on farm; *m.* Grace D. Paddock; *c.* Helen Elizabeth, Delaphine Hall, Joel Paddock. Grad. Eastman Coll., 1884.

Barnett, George Mish, co. agrl. agt., Westminster, S. C.

b. Westminster, S. C., Dec. 4, 1887; *s.* J. H. and Lucy Scott (Dickson) B.; reared on farm; *m.* Maude Cox, Oct. 30, 1910. B.S., Clemson Agr. Coll., 1909.

Barnett, John Calhoun, distr. agrl. agt., Old State House, Little Rock, Ark.

Manag. plantation, Issaquna Co., Miss., 3 yrs.; agrl. adv. to Minister of Lands and Agr., Bangkok, Siam, 2½ yrs.; distr. agt., U. S. Dept. Agr., La., 2½ yrs.; present position, 1918—. Farm operator. Travelled in Europe, Asia, Africa. *b.* Harperville, Miss., Aug. 7, 1880; *s.* B. R. and Mina (Moore) B.; reared on farm; *m.* Alpha Marie Franks, Aug. 30, 1916; *c.* Johnnie, Maria. B.S.A., Miss. A. & M. Coll., 1907.

Barnett, Robert John, prof. pom., Wash. State Coll., Pullman, Wash.

Asst. prof., Kans. State Agr. Coll., 1906–11; asst. prof. pom., Wash. State Coll., 1911–4; prof., 1914—. *b.* Denison, Kans., Jan. 16, 1874; *s.* James H. and Margaret (Linton) B.; reared on farm; *m.* Flora Day, 1898; *c.* Dahy Baskett. B.S., Kans. State Agr. Coll., 1895; M.S., 1911; Kans. State Normal, 1896. Alpha Zeta.

Barnum, Harry Lee, co. agrl. agt., Lake City, Mich.

Farm manag., Charlevoix Co., Mich., 1915–7; present position, 1917—. *b.* Hopkins, Mich., May 15, 1887; *s.* H. W. and Caroline (Walter) B.; reared on farm; *m.* Florence Alexander, Jul. 3, 1915; *c.* Emma Belle, Robt. Alexander. B.S., Mich. Agr. Coll., 1915.

Barnwell, Benjamin Birdie, co. agrl. agt., Frogmore, S. C.

Gardner, Chester, N. J., 1912; Whitford Lodge, Whitford, Pa., 1913–4; teach. agr. and asst. farm manag., Penn Sch., 1914; manag. Penn Sch. farm, 1915–7; co. agt., Beaufort Co., S. C., 1918—. *b.* Frogmore, S. C., Nov. 23, 1893; *s.* Geo. and Lucinda (Atkins) B. (col.); reared on farm. Grad. Hampton Inst.

Barre, Henry Walter, dir. Exp. Sta., Clemson College, S. C.

Field agt., Neb. Insect Pest and Plant Disease Bur., 1907; assoc. prof. bot. and bact., Clemson Coll., 1907–8; bot. and plant path., S. C. Exp. Sta., 1908–11; prof. bot. and bact., Clemson Coll. and bot. and plant path., S. C. Exp. Sta., 1911–6; dir. S. C. Exp. Sta., 1916—. Mem. S. C. Crop Pest Comn. *Assoc. ed.*, Phytopathology. Speciality, cotton dis-

eases, cotton anthracnose. *b.* Lexington, S. C., May 5, 1881; *s.* W. W. and Elizabeth Amanda (Caughman) B.; reared on farm; *m.* Florence Belle Tillotson, Feb. 16, 1910; *c.* Claude Bertram. B.S. Clemson Agr. Coll., 1905; B.S., Univ. Neb., 1907; M.A., 1910. Alpha Zeta; Sigma Chi.

Barrett, Charles S., farmer, pres. Nat. Farmers' Union, Union City, Ga.

Mem. Country Life Comn. appointed by Pres. Roosevelt; mem. Farm Adv. Bd., appointed by Houston and Hoover; mem. com. to fix wheat price, appointed by Pres. Wilson. Del. to Inter. Agrl. Inst., Rome, Italy. *Ed.,* National Field. *b.* Pike Co., Ga., Jan. 28, 1866; *s.* Thos. J. and Minerva (Slade) B.; reared on farm; *m.* Alma Rucker, 1892; *c.* Paul, Charlie, Howell, Leland, Gaines, John.

Barrett, James Theophilus, prof. plant path., Univ. Calif. Grad. Sch. Trop. Agr. and Citrus Exp. Sta., Riverside, Calif.

Asst. bot., Ill. Exp. Sta., 1903–8; fellow and grad. asst. bot., Cornell Univ., 1908–10; assoc. bot., Univ. Ill. and chief asst., Exp. Sta., 1910–3; present position, 1913—. *Assoc. ed.,* Phytopathology. *b.* Butler, Ill., Nov. 14, 1876; *s.* Jesse Clark and Emma (Hutchinson) B.; reared on farm; *m.* Anne Turner, June, 1904; *c.* James Turner, Mary Helen, Martha Anne, Paul Hutchison. B.A., Univ. Ill., 1903; A.M., 1907; Ph.D., Cornell Univ., 1910. Sigma Xi.

Barrett, Otis Warren, agrst., U. S. Dept. Agr., Washington, D. C.

With W. India Improvement Co., Jamaica, 1894; hon. curator ent. collections of the Museo de la Comision Geografico-Exploradora, Tacubaya, Mex., 1898–1900; ent. and bot., Porto Rico Exp. Sta., 1901–5; plant introducer, U. S. Dept. Agr., 1905–8; dir. agr. for Mozambique, Port E. Africa, 1908–10; chief divs. exp. stas. and hort., Bur. Agr., Manila, P. I., 1910–4; hort., Canal Zone, 1914–7. Fellow A. A. A. S. Expert on carbon procurement, Med. Dept. S.G.O., War Dept. *b.* N. Clarendon, Vt., Apr. 18, 1872; *s.* James and Alice Warren (Kelley) B.; reared on farm; *m.* Bessie Stearns, Apr. 27, 1898. B.Sc., Univ. Vt., 1896. Kappa Sigma.

Barringer, Benton Elwood, instr. agr., Dansville, N. Y.

Teach. distr. schs., 1910–2; instr. agr., high-sch., Dansville, N. Y., 1915—. *b.* Oramel, N. Y., Sept. 8, 1892; *s.* Frederick G. and Inez (Crawford) B.; reared on farm. B.S., Cornell Univ., 1915.

Barron, John H., asst. prof. farm crops, Cornell Univ., Ithaca, N. Y.

Asst. expl. agron., Penn. State Coll., 1907–9; farmer, N. Y. state, 1908–11; agt., Broome Co., N. Y., 1911–3; present position, 1914—. *b.* Tuscarora, N. Y., June 28, 1883; *s.* Milton M. and Alide A. (Hall) B.; reared on farm; *m.* Marion Irene Mitchell, Dec. 20, 1916; *c.* Vincent John. B.S.A., Cornell Univ., 1906. Sigma Xi.

Barron, Leonard, ed. Garden Magazine, Doubleday Page & Co., Garden City, N. Y.

Asst. ed. Gardeners' Chronicle, London, England, 1885–93; ed. American Gardening, 1893–5; manag. ed., Garden Magazine, 1905–11; ed., 1911—. *Auth.:* Lawns and How to Make Them, 1906; Roses and How To Grow Them, 1905. *b.* Chiswick, England, Sept. 29, 1868; *s.* Archibald Farquharson and Elinor M. (Ayres) B.; raised in gardens of Royal Hort. Soc.; *m.* Effie Maude Robinson, 1896; *c.* Eric Stuart, Dorothy Enid. Student Birkbeck Inst., London.

Barrows, Harry Percy, prof. agrl. educ., Ore. Agr. Coll., Corvallis, Ore.

Instr. agr., high-sch., Nephi, Utah, 1 yr.; instr. agr. and sci., high-sch., Box Elder, 2 yrs.; superv. agr. and nature-study, Box Elder Co., 1 yr.; instr. agrl. educ., Univ. Calif., 1 yr.; asst. prof. agrl. educ., Univ. Utah, 6 mos.; asst. and specialist agrl. educ., U. S. Dept. Agr., 3 yrs. *Ed.,* Agricultural Education Monthly. *b.* Ogden, Utah, June 19, 1883; *s.* Harry Morton and Elizabeth (Brewer) B.; reared on farm; *m.* Effie Smith, June 19, 1907; *c.* Percy Smith, Effie Eliza. B.S.A., Utah Agr. Coll., 1910; M.S., George Washington Univ., 1917. Delta Theta Sigma.

Barrus, Mortier Franklin, ext. prof. plant path., Cornell Univ., Ithaca, N. Y.

Asst. plant path., Cornell Univ., 1908–10; instr. 1910–1; ext. asst. prof., 1911–4; ext. prof., 1914—. *Auth.:* (with A. W. Gilbert and Daniel Dean) The Potato, 1917. *b.* Forestville, N. Y., Mar. 17, 1879; *s.* Orrin Mortier and Nettie E. (Fuller) B.; reared on farm; *m.* Della Wintrode, Sept. 17, 1910; *c.* Elizabeth

Ann, Benjamin W., Mortier F., Merton S. B.A., Wabash Coll., 1908; Ph.D., Cornell Univ., 1911. Phi Beta Kappa; Sigma Xi; Gamma Alpha.

Barss, Howard Phillips, prof. bot. and plant path., Ore. Agr. Coll., Corvallis, Ore.
Austin teaching fellow in bot., Harvard Univ., 1909–10; instr. bot., Wash. State Coll., 1910–2; asst. prof. bot. and plant path., Ore. Agr. Coll., 1912–3; assoc. prof., 1913–5; prof., 1915—. Pres. Pacific Div., Am. Phytopath. Soc., 1917; fellow A. A. A. S.; commr. for West, War Emergency Bd. Am. Plant Pathologists, 1918—; chm. Conference Cereal Path. Am., 1918. *Assoc. ed.*, Phytopathology, 1917—. *b.* Victoria, B. C., Apr. 20, 1885 (naturalized in 1906); *s.* Walter and Mary Fidelia (Phillips) B.; reared in city; *m.* Laura A. Hawks, June 29, 1911; *c.* Richard Hawks, Roger Phillips. A.B., Univ. Rochester, 1907; M.S., Harvard Univ., 1909. Phi Beta Kappa; Alpha Delta Phi; Gamma Sigma Delta.

Bartlett, Isaac Norton, co. agrl. agt., Middlebury, Vt.
b. Middle Granville, N. Y., Oct. 8, 1895; *s.* David and Ida (Norton) B.; reared on farm. B.S.A., Univ. Vt., 1917. Alpha Zeta; Sigma Nu.

Bartlett, James Monroe, chem., Exp. Sta., Orono, Me.
Analytical chem., Penn. State Coll., 1883–5. *b.* Litchfield, Me., Sept. 25, 1856; *s.* James and Sarah Jane (Towne) B.; reared on farm; *m.* Sarah Caroline Pattangall, Dec. 2, 1889; *c.* Emily M., Louise, Edwin, Burton E., Frances D., Edmund H. B.S., Univ. Me., 1880; M.S., 1883. Phi Gamma Delta.

Barton, Horace, prof. an. husb., Macdonald Coll., Que.
Asst. an. husb., Macdonald Coll., 1907–8; lect., 1908–10; prof., 1910—. Dir. E. Canada Live-Stock Assoc. Traveled in Europe, 1912. *b.* Vauklech Hill, Ont., June 29, 1883; *s.* John M. and Margaret Ann (Allen) B.; reared on farm; *m.* Mabel Pauline Loveridge, Jul. 23, 1912. B.S.A., Ont. Agr. Coll. and Toronto Univ., 1907.

Bascom, D. C., co. agrl. agt., Fort Collins, Colo.
Sec. Coll. Y. M. C. A., Fort Collins, Colo., 1910–2; agrl. agt., Logan Co., Colo., 1912–6; fieldman, Great Western Sugar Co., Sterling, Colo., 1916–8; present position, 1918—. *b.* Howard, Kans., Nov. 11, 1885; *s.* Samuel J. and Olive J. (Longley) B.; reared on farm; *m.* Alma M. Thompson, Aug. 23, 1911; *c.* Elizabeth May. B.S, Kans. State Agr. Coll., 1910.

Bassett, Charles E., specialist in coop. organization, Bur. Markets, U. S. Dept. Agr., Washington, D. C.
Supt. schs., 7 yrs. Fruit-grower, Fennville, Mich., 1892–1913. Sec. Mich. State Hort. Soc., 1898–1913. *Ed.*, Allegan Record and Fennville Herald, 21 yrs. *b.* Allegan, Mich., June 4, 1864; *s.* Elisha B. and Anne (Lawrence) B.; reared in town and country; *m.* Carrie E. Kingsley, Sept. 1, 1892; *c.* Marcia. Mast. Hort. (hon.), Mich. Agr. Coll., 1912.

Bassett, Samuel Clay, farmer, Gibbon, Neb.
Mem. Neb. Legislature, 1885, 1911. Food comnr., 1901–2. Mem. Neb. State Bd. Agr., 1894–1910, pres., 1899–1900; 1st pres. Neb. Dairymen's Assoc., 1885, sec., 1888–1914; pres. Neb. State Hist. Soc., 1917–8; sec. Buffalo Co. Agrl. Soc., 1875, 1882–5; pres. Neb. Hall of Agrl. Achievement, 1916–8. Served in Civil War. *Auth.:* History Buffalo County Neb., 1916. *b.* Walton, N. Y., Jul. 14, 1844; *s.* Clark and Mary M. (Hanford) B.; reared on farm; *m.* Lucia M. Baker, Sept. 17, 1867; *c.* Mary E., Clark S., Sam B., Alfred Bronson, Martha L., June, Laura Lee. Grad. Corning Acad., 1861.

Batchelor, Leon Dexter, prof. plant-breeding, Univ. Calif., Riverside, Calif.
Asst. hort., Cornell Univ., 1907–10; prof. hort., Utah Agr. Coll., 1910–5; present position, 1915—. Mem. Utah Hort. Comn., 1910–5. Contributing ed., Better Fruit and Utah Farmer. *b.* W. Upton. Mass., May 8, 1884; *s.* Henry J. and Margaret Elizabeth (Mc Coomb) B.; reared on farm; *m.* Florence M. Brown, Sept. 4, 1912; *c.* Margaret Elizabeth. B.S., N. H. A.&M. Coll., 1907; Ph.D., Cornell Univ., 1911. Kappa Sigma; Gamma Alpha; Alpha Zeta.

Batten, E. T., supt. co. exp. sta., Holland, Va.
Asst. agron., Va. Exp. Sta., 1914; present position, 1914—. Sec.-treas. Nansemond Co. Farmers' Union. *b.* Smithfield, Va., Apr. 6, 1893; *s.* E. K. B.; reared on farm. B.S.A., Va. Poly. Inst.

Baumeister, George Frederick, co. agrl. agt., Freeport, Ill.
Princ. graded sch., Wis., 1910–2; instr. agr. and biol., William and Vashti Coll., 1914–8. *b.* Boscobel, Wis., June 2, 1889; *s.* David and Maggie (Campbell) B.; reared on farm; *m.* Helen Gillette, Aug. 1, 1915. B.S., Univ. Wis., 1914. Alpha Zeta.

Bausman, Robert Otis, co. agrl. agt., Newark, Del.
Asst. ext., Purdue Univ., 1914–5; manag. govt. farm, Marion, Ind., 1916–7. *b.* Dayton, Ind., Jul. 3, 1891; *s.* Andrew and Martha B.; reared on farm. B.S.A., Purdue Univ., 1914. Alpha Gamma Rho.

Bayard, Edwin Stanton, ed. National Stockman and Farmer, Pittsburg, Pa.
Present position, 1895—. Pres. Penn. Breeders' and Dairymen's Assoc. Trustee Penn. State Coll. *b.* near Kingston, O., Dec. 13, 1867; *s.* Samuel Peter and Martha E. (Lutz) B.; reared on farm; *m.* Mary Virginia Kerr, 1903; *c.* Samuel Preston.

Bayliss, Edwin John Charles, asst. marketing dairy products, Bur. Markets, U. S. Dept. Agr., Washington, D. C.
b. St. Paul, Minn., Jan. 7, 1895; *s.* Daniel and Emma (Koch) B.; reared on farm. B.S., Ore. Agr. Coll., 1917. Theta Chi.

Beach, Bernie F., co. agrl. agt., Hart, Mich.
b. Millington, Mich., Nov. 28, 1891; *s.* Frank E. and Carrie E. (Bostick) B.; reared on farm; *m.* Lorena M. Fuller, Aug. 21, 1916. B.S., Mich. Agr. Coll., 1915.

Beach, Charles Lewis, pres. Conn. Agr. Coll., Storrs, Conn.
Instr. dairying, Conn. Agr. Coll., 1896–1906; prof. dairying, Univ. Vt., 1906–8; present position, 1908—. *b.* Whitewater, Wis., Apr. 6, 1866; *s.* Chas. R. and Mary Jennette (Lewis) B.; reared on farm; *m.* E. Louise Crombie, 1896. B.S., Univ. Wis., 1886.

Beach, Spencer Ambrose, prof. hort., vice-dean agr., Ia. State Coll., Ames, Ia.
Head dept. hort., Tex. A. & M. Coll., 1890–1; hort., N. Y. Agr. Exp. Sta., Geneva, 1891–1905; present position, 1905—. Pres. Ia. State Hort. Soc. Fellow Royal Hort. Soc. *Auth.:* The Apples of New York (2 vols.), 1905. *b.* Summer Hill, N. Y., Sept. 15, 1860; *s.* I. A. and Maria (Wood) B.; reared in village, town and farm; *m.* Norma Hainer, Jul. 2, 1890; *c.* Spencer Isaac, Frank Hainer, Julius Eugene, Spencer Ambrose Jr., Victor Hainer. B.S.A., Ia. State Coll., 1887; M.S., 1892. Alpha Zeta; Gamma Sigma Delta; Phi Kappa Phi.

Beach, Walter Greenwood, prof. social sci. and dean coll. sci. and arts., Wash. State Coll., Pullman, Wash.
Prof. philosophy and hist., Marietta Coll. for Women, 1892–8; prof. econ. and hist., Wash. State Coll., 1899–1910; prof. sociol., Univ. Wash., 1910–7; present position, 1917—. Special attention to rural sociol. *b.* Granville, O., May 20, 1868; *s.* David Edwards and Alice (Allen) B.; reared in town and country; *m.* Flora V. Warner, Dec. 28, 1892; *c.* Susan Elizabeth, Walter Edwards, Rachel Julia, Allen Warner. A.B., Marietta Coll., 1888; A.B., Harvard Univ., 1891; A.M., 1892; student Stanford Univ., 1898–9. Delta Upsilon.

Beal, Alvin Casey, prof. flor., Cornell Univ., Ithaca, N. Y.
Foreman hort. dept., Ill. Exp. Sta., 1898–9; foreman agrl. greenhouses, 1900–1; asst. hort., 1901–2; asst. flor., 1902–3; instr. flor., 1903–8; first asst. flor., 1908–9; grad. asst. flor., Cornell Univ., 1909–10; asst. prof. 1911–3; prof. 1913—. Sec. Ill. State Florists Assoc., 1908; sec. Am. Gladiolus Soc., 1917—. chm. com. on flor. courses, Soc. Hort. Sci., 1913–4. Brev. Capt. Ill. Nat. Guard. *b.* Mt. Vernon, Ill., Nov. 30, 1872; *s.* Lewis N. and Sarah M. (Casey) B.; reared on farm; *m.* Ervilla B. LeFevre, Dec. 31, 1899; *c.* Elizabeth. B.S., Univ. Ill., 1897; M.S.A., Cornell Univ., 1903; Ph.D., 1911. Sigma Xi.

Beal, John Mann, prof. bot. and for., Miss. A. & M. Coll., Agricultural College, Miss.
Instr. bot., Miss. A. & M. Coll., 1911–3; asst. prof., 1913–5; prof. bot. and for., 1915—. *b.* Rocky Mt., N. C., Apr. 18, 1888; *s.* John C. and Mary Caroline (Edwards) B.; reared on farm; *m.* Anna McBee, June 3, 1914; *c.* John M. Jr. B.S., N. C. A. & E. Coll., 1911; M.S., Miss. A. & M. Coll., 1913. Alpha Zeta; Kappa Alpha.

Beal, Walter Henry, chief editorial div., States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Asst. chem., Mass. Exp. Sta., 1887–91; specialist in agrl. research and editorial work, U. S. Dept. Agr., 1891—. Fellow A. A. A. S. Del. from U. S. Dept. Agr. to Intern. Congress of Agr., Liege, Belgium, 1905. *b.* Hanover Co., Va., Dec. 9, 1867; *s.* John and Charlotte (Ellett) B.; reared on farm; *m.* Eleanor Gilliss Ashby, Apr. 27, 1910; *c.* Walter H. Jr., Elizabeth Ashby, Anne Ashby. A.B. and M.E., Va. Poly. Inst., 1886. Phi Delta Theta.

Bear, Firman E., prof. soils, Ohio State Univ., Columbus, O.

Instr. agrl. chem., Ohio State Univ., 1908–10; asst. prof., 1910–3; prof. soils and chg. soil invest., Univ. W. Va., 1914–6; present position, 1916—. Studied agrl. conditions in Europe, summer 1911. *b.* Germantown, O., May 21, 1884; *s.* Ira F. and Emma (Harris) B.; reared on farm; *m.* Helen Judy, July 6, 1911; *c.* Firman E. Jr. B.S.A., Ohio State Univ., 1908; M.S., 1910; Ph.D., Univ. Wis., 1917. Sigma Xi; Alpha Zeta; Phi Lambda Upsilon.

Beattie, James Herbert, asst. hort., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

With Bur. Ent., U. S. Dept. Agr., 1904–6; Bur. Soils, 1906–12; Bur. Plant Ind., 1912—. *b.* Zanesville, O., June 4, 1882; *s.* Johnston and Mary (McCammon) B.; reared on farm; *m.* Susan Annetta Mohler, Dec. 26, 1906; *c.* May, Isabelle. B.Sc., Ohio State Univ., 1904.

Beattie, Rolla Kent, chief path. insp., Fed. Hort. Bd., U. S. Dept. Agr., Washington, D. C.

Teach. sci., high-sch., Leadville, Colo., 1896–7, Cheyenne, Wyo., 1898–9; instr. bot., Wash. State Coll., 1899–1903; acting prof. and head dept. bot. and zool., 1903–5; prof. and head dept. bot., 1905–12; for. path., Bur. Plant Ind., 1912–4; present position, 1914—; insp. in chg., Mex. Border Port Insp., 1917—. *b.* Ashland, O., Jan. 14, 1875; *s.* James Alexander and Margaret Davidson (Benton) B.; reared in town; *m.* Rose Mozee, Aug. 15, 1900; *c.* Lois Beryl. A.B., Cotner Univ., 1895; B.Sc., Univ. Neb., 1896; M.A., 1898.

[Beavers, J. C., p. 309.

Bechtel, John Reiff, asst. prof. veg. gard., Penn. State Coll., State College, Pa.

Asst. hort., Penn. State Coll., 1913–4; instr., 1914–7; asst. prof. veg. gard., 1917—. Sec. Penn. Veg. Growers' Assoc., 1914–8. *b.* Royersford, Pa., Dec. 28, 1886; *s.* John I. and Martha (Reiff) B.; reared on farm; *m.* Zelma Jane Bartow, June 13, 1913; *c.* Jane Bartow, John Edward. B.S., Penn. State Coll., 1913; M.S., 1917. Phi Kappa Phi.

Beck, Robert William, co. agrl. agt., McCrory, Ark.

Teach. sci., Paragould high-sch., Ark., 1915–6; agt. Woodruff Co., 1917—. *b.* Pocatello, Ida., Aug. 24, 1890; *s.* Robt. and Coral Amy (Chamberlain) B.; reared on farm; *m.* Stella Aldel May, Jul. 26, 1911; *c.* Stella May, Robt. Wm. Student Univ. Ark., 2½ yrs.

Beckenstrater, Herman, prof. pom., Md. State Coll. Agr., College Park, Md.

Teach. hort., Chicago Parental Sch., 1904–6; asst. prof. hort., Univ. Me., 1907–8; assoc. prof. hort., Md. State Coll. Agr., 1909–13; prof. pom., 1913—. Del. Pan American Sci. Congress, Washington, 1916. *b.* Osborn, Wis., Feb. 8, 1881; *s.* Joseph and Frederickie (Zinn) B.; reared on farm; *m.* Mary Lillian Wheatley, June 6, 1917. B.S.A., Univ. Wis., 1904; M.S., 1907; grad. student, Cornell Univ., 1908–9.

Becker, George Grover, prof. ent., Univ. Ark., Fayetteville, Ark.

Instr. and asst. ent., Univ. Ark., 1910–3; asst. prof. and ent. Exp. Sta., 1913–8; prof., 1918—; state ent., 1913—. *b.* Baltimore, Md., Feb. 2, 1889; *s.* Chas. R. and Mary A. D. (Middendorf) B.; reared in city, farm in summers. B.S., Md. Agr. Coll., 1908; B.S.A., Cornell Univ., 1910.

Beckman, Frederick William, prof. agrl. journalism and ed. bulletins, Ia. State Coll., Ames, Ia.

City ed., Sioux City Journal, Ia., 1902; ed. Council Bluffs Daily Nonpareil, 1902–3; manag. ed., Des Moines Register & Leader, 1903–9; ed. Sunday Magazine Syndicate, 1909–10; assoc. ed., Des Moines Register & Leader, 1910–1; instr. agrl. journalism, Ia. State Coll., 1911–2; prof., 1912—; ed. publications, Ia. Exp. Sta., 1911—. Pres. Am. Assoc.

Agr. Coll. Editors, 1916; adv. Am. Assoc. Agr. Coll. Mag., 1915—; mem. State Exec. Com., Ia. Y. M. C. A., 1914—. *b.* Clayton, Ia., Sept. 5, 1873; *s.* Herman F. and Louise (Kurdlemeyer) B.; reared in village and on farm; *m.* Anna McCullough, June 18, 1901; *c.* Richard W., Elizabeth Louise. Ph.B., Univ. Ia., 1897. Phi Kappa Phi; Alpha Zeta; Delta Sigma Rho; Sigma Delta Chi.

Beckwith, Theodore Day, bact., Ore. Exp. Sta., Corvallis, Ore.
Sci. asst., U. S. Dept. Agr., 1904–7; bact., N. D. Agr. Coll. and Exp. Sta., 1907–11; present position, 1911—. Fellow A. A. A. S. Mem. Ore. Rabbit Comn. Operator dairy and fruit farm. *b.* Utica, N. Y., Dec. 8, 1879; *s.* Theodore Geo. and Jane Sophia (Day) B.; reared in town; *m.* Cornelia Maria Lyon, June 26, 1910; *c.* Josephine Day, Jane Crosby, Stephen Lyon, Theodore Day Jr. B.S., Hamilton Coll., 1904; M.S., 1907. Phi Beta Kappa; Delta Upsilon; Alpha Zeta.

Bedford, Scott E. William, assoc. prof. sociol., Univ. Chicago, Chicago, Ill.
Princ. acad., Baker Univ., 1902–3 and prof. hist.; prof. sociol., Miami Univ., 1907–10; asst. prof., Univ. Chicago, 1910–6; assoc. prof., 1916—. Sec.-treas. Am. Sociol. Soc. 1918—. Specially interested in municipal and rural sociol. *Auth.:* Labor Legislation in Kansas, 1905; Modern Cities, 1912. Editorial bd., American Journal of Sociology. Traveled in Europe. *b.* Winterset, Ia., Mar. 8, 1876; *s.* Winfield S. and Jennie (Wilmore) B.; reared in town; *m.* Gussie Taggart. A.B., Baker Univ., 1902; A.M., 1903; L.H.D., Univ. Vt., 1911; grad. work, Univ. Chicago, 1903–7. Delta Tau Delta.

Beeson, Malcolm Alfred, prof. agron. and agron. Exp. Sta., Okla. A. & M. Coll., Stillwater, Okla.
Prof. sci., E. Miss. Female Coll., Meridian, 1900–1; pres. and owner of Meridian Male Coll., 1903–13; co-pres., Meridian Coll., 1913–4; present position, 1914—. Mem. com. soils for Nat. Conservation Congress, 1916. Sec.-treas. Okla. Seed Growers' Assoc. *b.* Gadsden, Ala., June 20, 1879; *s.* Wm. Baker and Mary Ann (Sebirt) B.; reared on farm; *m.* Effie Harrison, July 14, 1904; *c.* Evelyn, Wilhelmina, Wm. Malcolm. B.S., Ala. Poly. Inst., 1900; D.Sc., Meridian Coll.; grad. student, Johns Hopkins Univ., 1901–3.

Bell, N. Eric, co. agrl. agt., Greenville, Ala.
Asst. agrl. chem., Univ. Ill., 1906–7; Ala. Poly. Inst., 1907–10; chief surveyor and insp., Ala. Soil Survey, 1910–7; co. agt., 1917—. *b.* Lenoir Co., N. C., Mar. 17, 1886; *s.* Jas. H. and Mary John (Rouse) B.; reared on farm and in small town; *m.* Lucile Wright, Apr. 18, 1911. B.S., N. C. A. & M. Coll., 1906.

Bell, Robert Harry, co. agrl. agt., Williamsport, Pa.
Asst. hort., Penn. State Coll., 1910–1; practical work, 1911–2; asst. expl. pom., Penn. State Coll., 1912–4; agt., Lycoming Co., Pa., 1914—. *b.* Neff's Mills, Pa., Jan. 20, 1881; *s.* G. W. and Anna (Gettis) B.; reared on farm; *m.* Ethel I. Early, Apr. 15, 1913; *c.* Geo. Early, Margaret Ann, Wm. Gettis. B.S.A., Penn. State Coll., 1910. Alpha Zeta; Phi Kappa Phi.

Bemies, Charles O., minister, Y. M. C. A., 124 E. 28th St., New York City.
Physical dir., public schs., McKeesport, Pa., 1894–7; pastor rural church, McClennandtown, Pa., 1901–17; in reconstruction work in Russia, 1918—. *Auth.:* The Country Town Church. *b.* Vt., Mar. 19, 1867; reared in city; *m.* Lina Stracke, May 1891; *c.* Carl L., Clifton S. D.D., Geneva Coll., 1917.

Bender, Wilbur H., state dir. voc. educ. and superv. voc. agrl. educ., Des Moines, Ia.
Teach. rural schs., O., 1881–3; princ. and supt. schs., Ia., 1886–9, 1890–3, 1895–7; dir. dept. of training in teaching, Ia. State Teach. Coll., 1897–1913; asst. prof. agrl. educ., Ia. State Coll., 1913–4; assoc. prof. agrl. educ., Univ. Minn., 1914–8; present position, 1918—. *Auth.:* The Teacher at Work, 1902; Geography of Iowa, 1908. *b.* Williams Center, O., Apr. 15, 1860; *s.* Daniel and Nancy (Fisher) B.; *m.* Eva Tomlinson, Aug. 8, 1889. B.Di., Ia. State Normal Sch., 1886; M.Di., 1890; Ph.B., Univ. Ia., 1895; B.S. in Agrl. Educ., Ia. State Coll., 1914. Phi Beta Kappa; Gamma Sigma Delta.

Benedict, Murray Reed, co. agrl. agt., Mankato, Minn.
Agrl. instr., Boscobel, Wis., 1913–4; Aurora, Minn., 1914–7; asst. dairy

husb., Univ. Ill., winter, 1917–8. *b.* Neillsville, Wis., Jan. 23, 1892; *s.* Julius S. and Celia Ruth (Reed) B.; reared on farm; *m.* Elizabeth Tucker, Aug. 16, 1916. B.Sc., Univ. Wis., 1916. Alpha Zeta.

Bengston, Nels August, prof. geography and conservation, Univ. Neb., Lincoln, Neb.

Princ. high-sch., St. Paul, Neb., 1902; instr. geography, Peru Normal Sch., 1904–6; assoc. prof. geography, Univ. Neb., 1908–16; present position, 1917—; assoc. dir. Neb. Soil Survey, 1913—. Treas. Nat. Council of Geography Teachers. *Auth.:* Physical Geography Manual, 1912; The Wheat Industry, 1915. Farmer, 3 yrs. *b.* Morkhult, Sweden, May 22, 1879 (naturalized 1895); *s.* Aug. and (Hannah Johnson) B.; reared on farm; *m.* Iva Maxcy, June 14, 1902; *c.* Juanita L., Paulus A., Rowena V. A.B., Univ. Neb., 1907; A.M., 1908. Sigma Xi; Sigma Phi Epsilon.

Benjamin, Earl W., asst. prof. poultry husb., Cornell Univ., Ithaca, N. Y.

Instr. poultry husb., Cornell Univ., 1912–4; asst. prof., 1915—. Asst. poultry dept., N. Y. State Fair. *b.* Almond, N. Y., Oct. 16, 1889; *s.* Olney T. and Ada B. (Whitney) B.; reared on farm; *m.* Eva I. Hollister, Jul. 21, 1915; *c.* Roger Olney. B.S.A., Cornell Univ., 1911; M.S.A., 1912; Ph.D., 1914. Sigma Xi; Alpha Gamma Rho.

Benner, James William, asst. prof. vet. med., Mich. Agr. Coll., E. Lansing, Mich.

Vet. practice, 1911–4; instr. vet. med., Kans. State Agr. Coll., 1914–7; present position, 1917—. *b.* Hamlin, Kans., June 24, 1887; *s.* Harry M. and Mary S. (Swartley) B.; reared in town and on farm; *m.* De Nell G. Lyon, Sept. 11, 1912; *c.* David Lyon. D.V.M., Kans. State Agr. Coll., 1911. Alpha Psi.

Bennetch, Paul Bomberger, co. agrl. agt., Newton, N. J.

Asst. dairy husb., Penn. State Coll., 1909–10; farm supt., Ellsworth, Pa., 1910–2; instr. an. husb., N. Y. State Sch. Agr., Canton, 1912–3; prof. dairy husb., W. Va. Univ., 1913–5. *b.* Newmanstown, Pa., Oct. 27, 1885; *s.* John H. and Eliza (Bomberger) B.; reared on farm; *m.* Elva Elizabeth Straley, Oct. 20, 1915. B.S.A., Penn. State Coll., 1909. Delta Upsilon; Alpha Zeta; Phi Kappa Phi.

Bennett, Hugh Hammond, soil sci. and insp. Southern Div., U. S. Soil Survey, Dept. Agr., Washington, D. C.

Farmer near Wadesboro, N. C., 5 yrs. Mem. govt. exploring party to Alaska; mem. com. sent to Panama by Pres. Taft. In Engin. Corp, U. S. Army, 1918—. *b.* Wadesboro, N. C., Apr. 15, 1881; *s.* W. O. and Rosa (Hammond) B.; reared on farm; *m.* Edna McCue, 1907 (*d.* 1909); *c.* Sarah Edna. B.S., Univ. N. C., 1903. Phi Delta Theta.

Benson, Edwin Freeland, comnr. of agr., and pres. Wash. State Land Settlement Assoc., Olympia, Wash.

Farmer and stock-raiser, Wash., 1883—. Probate judge, Lincoln Co., 1884–7. Pres. Wash. Irrig. Inst., 1913—.; former pres. Wash. Live-stock Assoc., Wash. Hort. Assoc. *b.* Swan's Isls., Me., Feb. 2, 1861; *s.* Freeland Howe and Elizabeth Hannah (Sadler) B.; reared in city; *m.* Effie F. Kimball, Dec. 16, 1884; *c.* Myra B. LL.B., Boston Univ., 1881.

Benson, Oscar Herman, agrst. in chg. boys' and girls' ext. work, U. S. Dept. Agr., Silver Springs, Md.

Teach. rural schs. in Ia., 2 yrs.; teach. and princ. town schs., 5 yrs.; city supt. and princ. high-sch., 4 yrs.; co. supt. schs., 5 yrs. First pres. Nat. Conference for Ext. Educ. *Auth.:* Agriculture for Corn Belt States, 1916; Agriculture, 1915 (with Betts); Agriculture and the Farmer's Business, 1917. *b.* Delhi, Ia., Jul. 8, 1875; *s.* P. C. and Celia (Orthberg) B.; reared on farm; *m.* Sadie Jackson, Jul. 30, 1902; *c.* Donald Dean, Margaret Irene, Elizabeth. Grad. Jr. Coll., Epworth Sem., Ia.; special courses at Univ. Ia., Chicago Univ., Ia. State Coll.

Bentley, Gordon Mansir, state ent. and assoc. prof. ent. and econ. zool., Univ. Tenn., Knoxville, Tenn.

Prof. sci., Union Acad., Belleville, N. Y., 1901–4; instr. ent., N. C. A. & M. Coll., 1904–5; asst. ent., N. C. Exp. Sta. and state ent., 1904–5; instr. zool. and ent., Univ. Tenn., 1905–7; asst. prof., 1907–9; state ent., 1909—; assoc. prof., 1914—. Fellow A. A. A. S. Sec.-treas. Tenn. Hort. Soc.; sec.-treas. Tenn. State Nurserymen's Assoc.; sec.-treas.

Tenn. State Florists' Assoc.; 3d vice-pres. Am. Assoc. Econ. Ent. Farm manag. *Assoc. ed.*, Southern Fruit Grower. *b.* Great Barrington, Mass., Sept., 23, 1876; *s.* Chas. H. and Elvira (Mansir) B.; reared on farm and in town; *m.* Mary Catherine Elmore, June 12, 1912; *c.* Jaunita Louise, Edna Elvira. B.S.A., Cornell Univ., 1900; A.M., 1901. Sigma Xi; Gamma Alpha.

Bentley, John Jr., asst. prof. for., Cornell Univ., Ithaca, N. Y.

With U. S. For. Serv., 1908–12; present position, 1912—. *b.* Brooklyn, N. Y., June 8, 1880; *s.* John and Lizzie (Annin) B.; reared in city; *m.* Sue Hayward, Oct. 5, 1910; *c.* Sue Hayward. B.S., Wesleyan Univ., 1904; M.F., Yale Univ., 1907. Phi Beta Kappa; Sigma Xi; Psi Upsilon.

Benton, Alva Hartley, prof. farm manag. and rural econ., Man. Agr. Coll., Winnipeg, Man.

Asst. prof. farm manag., Univ. Minn., 1913–8; present position, 1918—. *Auth.:* Family Account Book, 1915. *b.* Menden, O., Jan. 26, 1886; *s.* Chester Elias and Addie Caldwell (Snodgrass) B.; reared on farm; *m.* Alice Mitchamore, 1913; *c.* Robt. Hartley, Elizabeth Louise. B.S.A., Ohio State Univ., 1912; M.S., Penn. State Coll., 1913. Pi Kappa Alpha.

Berckmans, Louis Alphonse, hort., Augusta, Ga.

Nurseryman, lands. gard., peach-grower and farmer, 1876—. Treas. Ga. State Hort. Soc.; mem. Bd. Comnrs. and Bd. Educ., Richmond Co. Traveled in Europe. *b.* Plainfield, N. J., Mar. 31, 1857; *s.* Prosper Jules Alphonse and Mary (Craig) B.; reared in country; *m.* Anne Loretta McGloine, Nov. 15, 1916; *c.* Mary Alice. Grad. Richmond Acad., Augusta, Ga., 1875.

Berckmans, Prosper Jules Alphonse Jr., hort., Augusta, Ga.

Nurseryman, farmer and peach-grower, 1886—. Mem. bd. dirs., Ga. Fruit Exchange. *b.* Augusta Ga., June 27, 1866; *s.* Prosper Jules Alphonse and Mary (Craig) B.; reared in country; *m.* Sallie Bedle, Apr. 16, 1899. Grad. Univ. Ga. Sigma Alpha Epsilon.

Berckmans, Robert Craig, hort., fruit-grower and farmer, Macon, Ga.

Mem. Ga. State Bd. Ent.; pres. Ga. State Hort. Soc.; ex.-pres. Am. Assoc. Nurserymen; ex-pres. Ornamental Growers' Assoc. of Am.; ex-pres. Southern Assoc. Nurserymen; pres. Richmond Co. Agrl. Soc. Traveled in foreign countries. Retired officer Nat. Guard of Ga. (cavalry). *b.* Augusta, Ga., Jul. 3, 1863; *s.* Prosper Jules Alphonse and Mary (Craig) B.; reared on farm; *m.* Caroline Walker Horne, Apr. 29, 1905; *c.* Mary Craig, Annie Horne, Louis Alphonse. Grad. Univ. Ga., 1881. Sigma Alpha Epsilon.

Berger, Edward William, prof. ent., Univ. Fla., Gainesville, Fla.

Prof. sci., Baldwin-Wallace, 1899–1901; teach. sci., Lincoln high-sch., Cleveland, O., 1901–2; private invest., 1902–5; ent. studies, Lake Lab. and Ohio State Univ., 1905–6; ent. Fla. Exp. Sta., 1906–11; state insp. nursery stock, Fla., 1911–5; prof. ent., Univ. Fla., 1911—; ent. State Plant Bd. of Fla., 1915—. Winner silver medal, Royal Inter. Hort. Exhibition, London, 1912. Student invest. with Johns Hopkins exped. to Jamaica, 1897; Woods Hole, Mass., 1898; Beaufort, N. C., 1899. *Auth.:* Physiology and Histology of Cubomedusae, 1899. *b.* Berea, O., Nov. 29, 1869; *s.* Carl Gottlob and Christiane Pauline (Gellrich) B.; reared in country and town; *m.* Emily Agnes Mueller, June 25, 1903; *c.* Helen Margaret (adopted). A.B., Baldwin-Wallace, 1891; Ph.B., 1894; Ph.D., Johns Hopkins Univ., 1899. Phi Kappa Phi; Sigma Xi.

Bernard, Luther Lee, assoc. prof. sociol., Univ. Minn., Minneapolis, Minn.

Instr. sci., Peirce City Baptist Coll., 1901–3; instr. ancient languages, Lamar Coll., Mo., 1903–5; fellow in sociol., Univ. Chicago, 1907–10; instr. sociol., Western Reserve Univ., 1910–1; prof. hist. and social sci., Univ. Fla., 1911–4; acting prof. and asst. prof. sociol., Univ. Mo., 1914–7; present position, 1917—. Speciality, rural sociol. *b.* Russell Co., Ky., Oct. 29, 1881; *s.* Hiram Hamilton and Julia Anne (Wilson) B.; reared on farm; *m.* Frances Fenton, Sept. 16, 1911; *c.* Mary Marjorie. B.S., Peirce City Baptist Coll., 1900; A.B., Univ. Mo., 1907; Ph.D., Univ. Chicago, 1910. Phi Beta Kappa; Phi Kappa Phi; Alpha Zeta Pi.

Berry, James Berthold, prof. plant path. and for., and dir. For. Sch., Univ. Ga., Athens, Ga.

For. asst., U. S. For. Serv., 1910–1; instr. for., Penn. State Coll., 1911–3; prof. for. and dir. Ga. State For. Sch., 1914—; prof. plant. path. and for., Univ. Ga., 1917—. Mem. Atlanta For. Comn. Special collaborator, U. S. For. Serv.; collaborator Plant Disease Survey, Bur. Plant Ind. Sec. Wood-Fuel Dept., Federal Fuel Administration for Ga. Traveled and studied 15 months in Europe. *Auth.*: Correspondence Course Forestry, Ga. *b.* Edwardsville, Ill., Aug. 2, 1880; *s.* James Frederick and Fanny (Meyer) B.; reared on farm and in small town; *m.* Gladys E. Jones, Dec. 26, 1914; *c.* James Berthold Jr. B.S. Univ. Minn., 1910; M.S., Penn. State Coll., 1913; student Univ. Munich, 1913–4.

Besse, Ralph Stephen, state leader co. agts., Univ. Wyo., Laramie, Wyo.

Asst. state leader farm advs., Univ. Mo., 1913–5; present position, 1916—. Mem. Wyo. State Bd. Nat. Defense. *b.* Carthage, Mo., Nov. 27, 1887; *s.* Furrow and Ida (May) B.; reared on farm; *m.* Helen Margaret Haines, Oct. 31, 1916; *c.* Wm. Furrow. B.S.A., Univ. Mo., 1913; M.A., 1917.

Bessey, Ernst Athearn, prof. bot., Mich. Agr. Coll., E. Lansing, Mich.

Prof. bot. and bact., La. State Univ., 1898–1910; present position, 1910—. Asst. plant path., U. S. Dept. Agr., 1899–1901, 1904–5; chg. Off. Seed and Plant Introduction, 1901–2; chg. Subtropical Lab., Miami, Fla., 1905–8. Treas. Mich. State Potato Assoc., 1914–8; pres. Mich. Acad. Sci., 1915–6. Traveled as agrl. explorer, U. S. Dept. Agr., in Russia, Caucasus and Turkestan, 1902, 1903, Algeria, 1904. *Auth.*: (with C. E. Bessey) Essentials of College Botany, 1914. *Assoc. ed.*, Phytopathology, 1915–7; Am. review ed., Rivista di Patologia Vegetale. *b.* Ames, Ia., Feb. 20, 1877; *s.* Chas. E. and Lucy (Athearn) B.; reared in city; *m.* Edith Carleton Higgins, Jul. 25, 1906; *c.* Bertha Agnes, Wm. Higgins, Robt. John. B.A., Univ. Neb., 1896; B.Sc., 1897; M.A., 1898; Ph.D., Univ. Halle, 1904. Phi Beta Kappa; Sigma Xi; Alpha Zeta.

Bever, James, head dept. hist. and social sci., State Normal Sch., Bellingham, Wash.

Teach. rural schs., Ia., 1891–8; village sch., Grant, Ia., 1900–1; Atalissa, 1902; Capital Park high-sch., Des Moines, 1902–3; princ. Park Ave. Sch., Des Moines, 1903–4; teach. sci. and math., high-sch., N. Yakima, Wash., 1904–5; princ., high-sch., N. Yakima, 1905–9; present position, 1909—. Del. Nat. Conference of Charities and Correction, Seattle, 1913. Speciality, rural sociol. Farm operator, 1 yr. *b.* Hartford, Ia., Jul. 4, 1870; *s.* Geo. Turner and Mary Esther (Freel) B; reared in small town; *m.* Virginia Miriam Hickey, 1906; *c.* Elizabeth Esther, Allena Miriam, Virginia Margaret. A.B., Drake Univ., 1902; M. A., 1906.

Bevier, Isabel, prof. household sci. and dir. courses, Univ. Ill., Urbana, Ill.

Princ. high-sch., Shelby, O., 1885–7; Mt. Vernon, 1887–8; prof. nat. sci., Pa. Coll. for Women, 1889–97; prof. chem., Lake Erie Coll., Painesville, O., 1899–1900; present position, 1900—. Asst. in nutr. invest., U. S. Dept. Agr., 1894–9. Mem. exec. council and expres. Am. Home Econ. Assoc. Chm. Dept. Conservation, Council Nat. Defense, Woman's Com., Ill. Div.; home econ. dir. for Ill. Food Administration, one of six chm. home econ. div. of Food Administration under Mr. Hoover, 1917–8. *Auth.*: The Home Economics Movement, 1906; The House, 1907; Food and Nutrition (with Susanna P. Usher), 1908; selection and Preparation of Food (with Anna R. Van Meter), 1907, 1910, 1915. *b.* Plymouth, O., Nov. 14, 1860; *d.* Caleb and Cornelia (Brinkerhoff) B.; reared on farm. Ph.B., Univ. Wooster, 1885; Ph.M., 1888; studied Case Sch. Applied Sci., summers 1888, 89; Harvard, summer 1891; Prof. Atwater's lab., summer, 1894; Mass. Inst. Tech., 1897–8. Sigma Xi.

Biery, Calvin John, head dept. rural educ., Bowling Green State Normal Coll., Bowling Green, O.

Rural sch. teach.; supt. city schs., Oak Harbor and Wauseon, O.; supt. Fulton Co., O.; present position, 1915—. Mem. O. State Bd. Sch. Examiners. *b.* Columbiana Co., O. Mar. 10, 1866; *s.* John and Mary Magadalena (Schwartz)

B.; reared in town and country; *m.* Jennis Lyon, Dec. 24, 1890; *c.* Marguerite, Rosa, Leland C. B.S., Ohio Northern Univ., 1889; M.S., 1893; grad. student, Univ. Chicago.

Biester, Alice, asst. prof. nutr., Univ. Minn., University Farm, St. Paul, Minn.

Instr. home econ., Purdue Univ., 1913–5; asst., Univ. Ill., summer 1913; present position, 1915—. *b.* Belvidere, Ill., Jan. 10, 1890; *d.* Henry and Elizabeth (Schandelmeier) B.; reared on farm. A.B., Univ. Ill., 1912; A.M., 1913. Sigma Xi; Kappa Delta Pi; Omicron Nu.

Bill, Arthur J., agrl. reporter and ed., Bloomington, Ill.

Country sch. teach., 6 yrs.; newspaper work, 5 yrs.; agrl. ed., Daily Pantagraph, 21 yrs.; ed. Farmers' Voice, 3½ yrs.; ed. Community Building, 16 months; asst. ed. agrl. circulars, Univ. Ill., 2 yrs. *b.* Great Valley, N. Y., Apr. 4, 1862; *s.* Marcius Edward and Harriet Adaline (Card) B.; reared on farm; *m.* Atha Stearns, 1889; *c.* Curtis Stearns, Edgar L., Frank Willmar, Arthur Clarence.

Billings, George Austin, agrst., Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.

Chem., Mass. Exp. Sta., 1895–6; teach. sci., Baron de Hirsch Agr. Sch., Woodbine, N. J., 1899–1900; dairy husb., supt., farm, instr. short-courses, N. J. Exp. Sta., 1903–8; present position, 1908—. Sec.-treas. Am. Farm Manag. Assoc., 1913–5, pres., 1918. *b.* S. Deerfield, Mass., Jul. 28 1870; *s.* Austin Ira and Harriet (Dickinson) B.; reared on farm; *m.* Minerva Powell Ferrabee, Apr. 11, 1900. B.S., Mass. Agr. Coll. and Boston Univ., 1895.

Bilsing, Sherman Weaver, prof. ent., Tex. A. & M. Coll., College Station, Tex.

Asst. ent. and zool., Ohio State Univ., 1912–3; instr. ent., Tex. A.&M. Coll., 1913–4; asst. prof., 1914–5; assoc. prof., 1915–6; prof., 1916—. *b.* Crestline, O., Dec. 8, 1885; *s.* Wm. A. and Catharine (Weaver) B.; reared on farm. B.S., Otterbein Univ., 1912; A.B., Ohio State Univ., 1912; M.A., 1913. Sigma Xi.

Binding, Leo Ross, co. agrl. agt., Rochester, Ind.

Asst. agron., Ill. Exp. Sta., 1912–5; agron. and agrl. chem., Inter. Correspondence Schs., Scranton, Pa., 1915–8; agt. Fulton Co., Ind., 1918—. *Auth.:* Text-Book on Soil Improvement, 1917. *b.* Stockbridge, Mich., Feb. 21, 1884; *s.* Willis and Louise (Johnson) B.; reared on farm; *m.* Louise A. Merboth, Jul. 14, 1915; *c.* Kathryn Louise. B.Sc., Mich. Agr. Coll., 1912.

Bing, Phil C., asst. prof. journalism, Univ. Minn., Minneapolis, Minn.

Editorial writer, Daily Republican News, Hamilton, O., 1911; instr. English, Univ. Utah, 1912–5; instr. journalism, Univ. Wis., 1916–7; present position, 1917—. *Auth.:* The Country Weekly, 1917. Manag. ed., Minn. Farm Review, 1917—. Traveled and studied in Europe. *b.* Maynard, Ia., Jul. 23, 1883; *s.* John D. and Henrietta (Cline) B.; reared in village; *m.* Ada May Burke, Aug. 11, 1915; *c.* Georgia Hedger. B.A., Miami Univ., 1906; M.A., Univ. Wis., 1917. Phi Beta Kappa; Delta Kappa Epsilon; Sigma Delta Chi.

Bingham, Herman West, co. agrl. agt., Covington, Ga.

Supt. and agrst., Loranger Agr. Sch., Loranger, La., 1916–7; agt. Newton Co., Ga., 1917—. *b.* Trenton, Ala., Dec. 8, 1893; *s.* Wm. Henry and Mary Eliza (Jones) B.; reared on farm; *m.* Fannie Lou Jackson, Aug. 31, 1916; *c.* Margaret. B.S., Ala. Poly. Inst., 1916.

Bioletti, Frederic Theodore, prof. viticulture, Univ. Calif., Berkeley, Calif.

Instr. viticulture, Univ. Calif., 1894–1901; lect. on hort. and wine-making, Elsenburg Coll., Cape Colony, 1901–4; present position, 1904—. Chm. Citrus Comn., Cape Colony, 1901–4. Viticultural invest. in Germany, France and Algeria, 1904–5. Farming, 12 yrs. *b.* Liverpool, England, Jul. 21, 1865; *s.* Frank T. and Frances (Richards) B.; reared on farm and in town; *m.* Eugenie Henriette Carlton, 1897; *c.* Dorotea Carlton. B.S., Univ. Calif., 1894; M.S., 1898. Sigma Xi.

Birch, Wallace Newton, co. agrl. agt., Madera, Calif.

Dairyman and company officer, Boys' Ind. Sch., Topeka, Kans., 1907–9; agrl.

insp., Bur. Agr., Manila, P. I., 1909–11; station supt., 1912–3; on citrus farm, Calif., 1913–5; co. agt., Twin Falls, Ida., 1915–7; present position, 1917—. *b.* Manhattan, Kans., Jul. 7, 1879; *s.* Frank A. and Alice V. (Anderson) B.; reared on farm; *m.* Ethel J. Land, Jul. 2, 1913; *c.* Catherine Alice, Helen Louise. B.S., Kans. State Agr. Coll., 1904.

Birdseye, Miriam, asst. ext. work with women, Off. Ext. Work North and West, States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Instr. household arts, Hebrew Tech. Sch. for Girls, Brooklyn N. Y.; 1907–9; instr. cooking, Simmons Coll., 1909–10; instr. bact. and sanitation, Bates Coll., Me., 1911–2; lect. home econ. ext., Cornell Univ., 1913–4; asst. prof., 1914–7; present position, 1917—. *b.* Brooklyn, N. Y., Dec. 18, 1878; *d.* Clarence F. and Ada J. (Underwood), B.; reared in city, summers in country. A.B., Smith Coll., 1901.

Bishop, Charles McTyeire, pres. Southwestern Univ., Georgetown, Tex.

Adj. prof. Latin and Greek, Emory and Henry Coll., 1885–7; ordained Methodist minister, 1889; pastor, Asheville, N. C., 1887–9; Kans. City, Mo., 1889–93, 95–98; Lexington, 1893–5; Nevada, 1898–1901; St. Joseph, 1901–5; Columbia, 1905–9; Mexico, 1909–10; Wichita Falls, Tex., 1910–1; pres. Southwestern Univ., 1911—. Mem. Bd. of Missions, M. E. Church, South, 1906–10; mem. Comn. on Unification M. E., M. E. South and Meth. Prot. Churches, 1910—. Lect. on rural sociol., literary and biblical subjects. Traveled in Europe, 1900. *Auth.:* Jesus the Worker, 1909. *b.* Jefferson, N. C., Feb. 2, 1862; *s.* Benjamin W. S. and Julia Anne (Goodykoontz) B.; reared in small town; *m.* Phoebe Eleanor Jones, June 3, 1889; *c.* Phoebe Eleanor, Mary Martha, Eugene Hendrix, Dorothea F., Rose Boddie. A.B., Emory and Henry Coll., Va., 1884; A.M., 1886; D.D., Central Coll., Mo., 1899. Sigma Alpha Epsilon.

Bishop, Leon Thomas, co. agrl. agt., Lapeer, Mich.

Farmer, Almont, Mich., 1915–8. *b.* Macomb Co., Mich., May 22, 1894; *s.* Frank L. and Genevieve (Thomas) B.; reared on farm; *m.* Emma L. Borland, Feb. 14, 1917; *c.* Mary Jean. B.S., Mich. Agr. Coll., 1915. Alpha Zeta.

Bishop, Roy Cleveland, co. agrl. agt., Pontiac, Ill.

Asst. instr. organic chem., Univ. Mo., 1911–2; agt. Livingston Co., Ill., 1913–8. Sec. Ill. Agrl. Assoc., 1917–8. State farm labor administrator, State Council of Defense. *b.* Calloway Co., Mo., Nov. 15, 1885; *s.* Samuel C. and Alice (Hayden) B.; reared on farm; *m.* Lela Eames, June 6, 1911; *c.* Dorothy Inez, Harold Eames. B.S.A., Univ. Mo., 1911.

Bisset, Peter, plant introducer in chg. foreign plant distribution, Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Mem. Inter. Jury Awards, Panama Pacific Expos., 1915. Former sec. Washington Florists' Club; vice-pres. Am. Carnation Soc.; dir. Am. Rose Soc.; chm. rose sect., Am. Breeders' Assoc. Traveled in Porto Rico, Bermuda. *Auth.:* The Book of Water Gardening, 1907. *b.* Scotland, Apr. 24, 1869 (naturalized 1899); *s.* David and Margaret (Cunningham) B.; reared in country; *m.* Maria Anderson, Mar. 25, 1891; *c.* David A., Andrew G., Peter Jr., Maria, Geo., Alfred, Harry, Helen, Paul J.

Bivens, Samuel Robert, co. agrl. agt., Greensboro, N. C.

Teach. and farmer, 1903–7; organizer and special lect. for N. C. Farmers' Union, 1907–9; agt. Vance Co., N. C., 1913–7; agt. Nottoway and Amelia Cos., Va., 1917; agt. Guilford Co., N. C., 1918—. *b.* Union Co., N. C., June 23, 1883; *s.* James Thos. and Mary Elizabeth (Moore) B.; reared on farm; *m.* Elizabeth Huff, Dec. 30, 1914; *c.* Samuel R. Jr., Dorothy Elizabeth. A.B., Univ. N. C., 1913.

Bixby, John Duncan Sr., ed. The Western Honey Bee, Covina, Calif.

Beekeeper, Ia., 1885–98; N. Y., 1898–1906; Calif., 1909—. *Ed.* and business manag., The Western Honey Bee, 1913—. *b.* Green Bay, Wis., Feb. 25, 1858; *s.* Theron K. and Sabina C. (Duncan) B.; reared on farm; *m.* Alice E. Johnson, Nov. 10, 1881; 2d, Mrs. Elgenia B. Behrends, Jul. 3, 1913; *c.* Arthur E., John D. Jr., Margaret Dorothy.

Bizzell, James Adrian, prof. soil tech., Cornell Univ., Ithaca, N. Y.

Instr. chem., N. C. A.&M. Coll. and asst. chem., N. C. Exp. Sta., 1895–1901; fellow chem., Cornell Univ., 1901–2; asst. chem., Cornell Exp. Sta., 1903–7; asst. prof. soil tech., Cornell Univ., 1907–12; prof., 1912—. *b.* Glenwood, N. C., Apr. 13, 1876; *s.* Hannibal N. and Mary C. (Underwood) B.; reared on farm. B.S., N. C. A.&M. Coll., 1895; M.S., 1900; Ph.D., Cornell Univ., 1903.

Bizzell, William Bennett, pres. A. & M. Coll. of Tex., College Station, Tex.

Supt. public schs., Navasota, Tex., 1900–10; pres. Coll. of Ind. Arts, Denton, 1910–4; present position, 1914—. Fellow A. A. A. S. Speciality, sociol. and rural econ. *Auth.:* Judicial Interpretation of Political Theory, 1913; The Social Teaching of the Jewish Prophets, 1914. *b.* Independence, Tex., Oct. 14, 1876; *s.* G. M. and Sarah Elizabeth (Wade) B.; reared on farm; *m.* Carrie Wray Sangster, Aug. 16, 1900; *c.* Sangster, Elaine. B.S., Baylor Univ., Waco, Tex., 1898; Ph.B., 1900; M.A., Univ. Chicago, 1910; D.C.L., Ill. Coll. of Law, 1912.

Bjorka, Knute, co. agrl. agt., Cambridge, Minn.

Agrl. dir., public schs., Belgrade, Minn., 1916–8; co. agt. Isanti Co., 1918—. *b.* Fergus Falls, Minn., Jan. 28, 1888; *s.* Ole T. and Kari (Olson) B.; reared on farm. B.S., Univ. Minn., 1916.

Black, John Donald, asst. prof. agrl. econ., Univ. Minn., University Farm, St. Paul, Minn.

Instr. Western Reserve Univ., 1910–1; instr. Michigan Coll. of Minn., 1911–3; present position, 1918—. *b.* Ft. Atkinson, Wis., June 6, 1883; *s.* Robt. and Margaret (Scott) B.; *m.* Nina E. VanSteenberg, June 23, 1917; *c.* John D. Jr. A. B., Univ. Wis., 1909; A. M., 1910; Ph. D., 1918.

Blackmore, Beulah, asst. prof. home econ., Cornell Univ., Ithaca, N. Y.

Teach. public sch., Howard City, Mich., 1909–10; Tacoma, Wash., 1910–3; present position, 1915—. *b.* Vassar, Mich., Apr. 6, 1886; *d.* Simon and Anne (Dick) B.; reared in village. Life teach. cert., Mich. State Normal Coll., 1909; B.S., Teachers' Coll., Columbia Univ., 1917. Gamma Phi Beta.

Blackwell, Jefferson Davis, state dir. voc. agr., Austin, Tex.

Asst. prof. agr., State Normal Sch., Warrensburg, Mo., 1914; assoc. prof. agrl. educ., Tex. A. & M. Coll., 1914–7; specialist agrl. educ., States Relations Serv., U. S. Dept. Agr., 1911–7; present position, 1918—. *b.* Blackwell, Mo., Sept. 5, 1885; *s.* A. and Dorothy (Coleman) B.; reared on farm; *m.* Salome Love, Aug. 1, 1915; *c.* Edith Lucile. B.S.A., Univ. Mo., 1914. Alpha Zeta.

Blair, Augustine Wilberforce, prof. agrl. chem., Rutgers Coll., assoc. soil chem., N. J. Exp. Sta., New Brunswick, N. J.

Teach. sci., Abington Friends Sch., Jenkintown, Pa., 1892–5; prof. physics and chem., Guilford Coll., 1896–7; chem., Fertilizer Control Div., N. C. Exp. Sta., 1897–9; asst. chem., Fla. Exp. Sta., 1899–1906; chem., 1906–11; present position, 1911—. *b.* Archdale, N. C., Sept. 12, 1866; *s.* Benjamin F. and Rachel E. (Anderson) B.; reared on farm; *m.* Judith Genevieve Mendenhall, Jul., 1897; *c.* Mary Mendenhall. B.S., Haverford Coll., 1892; A.M., 1896.

[**Blair, J. C.,** p. 309.

Blake, Maurice Adin, prof. hort., Rutgers Coll., and hort., N. J. Exp. Sta., New Brunswick, N. J.

Asst. hort., R. I. Exp. Sta., 1904–5; instr. hort., Mass. Agr. Coll., 1905–6; present position, 1906—. Mem. exec. com., N. J. State Hort. Soc., vice-pres., 1918. Pres. Soc. for Hort. Sci., 1916. *b.* Millis, Mass., Dec. 1, 1882; *s.* Adin Philip and Phebe Ann (Frye) B.; reared on farm; *m.* Beulah Angie Hoitt, Oct. 23, 1907. B.S., Mass. Agr. Coll., 1904.

Blanchard, Clarence John, statistician, U. S. Reclamation Serv., 8th and E Sts., N. W., Washington, D. C.

Deputy state oil insp. of Ia., 1886–91; special press correspondent, Cent. America, 1892–3, 1898; Hawaiian Isls., 1899; chief irrig. sec., 12th Census, 1900; chg. special invest. of irrig., 1902–3; present position, 1904—, in chg. settlement of reclaimed arid public lands, lect. and auth. on western subjects. *b.* Norham, Canada, Dec. 4, 1863; *s.* John and Sarah Lucy (Young) B.; *m.* Fannie Genevieve Alexander, June 18, 1895. Student Ia. State Coll., 1883.

Blasingame, Ralph Upshaw, assoc. prof. farm mech., Penn. State Coll., State College, Pa.

Instr. agrl. engin., Penn. State Coll., 1913–5; prof. agrl. engin., Ala. Poly. Inst., 1916–8; present position, 1918—. *b.* Ala., 1886; *s.* B. T. and Willie May (Upshaw) B.; reared on farm; *m.* Sue Combs, Aug. 20, 1913; *c.* Robt. B.S. in C.E., B.S.A., Ala. Poly. Inst., 1910; B.S. in Agrl. Engin., Ia. State Coll., 1913. Phi Kappa Phi; Gamma Sigma Delta; Alpha Gamma Phi.

Blatchley, Vernon Boyd, co. agrl. agt., Ithaca, N. Y.

Teach. voc. agr., Newark Valley, N. Y., 1911–4; agrl. agt., Tompkins Co., 1914—. Managing ed., Tompkins Co. Farm Bur. and Breeders' Journal. *b.* Blatchley, N. Y., Jul. 17, 1883; *s.* V. C. and Mary E. (Kent) B.; reared on farm; *m.* Helen Francis Purdy, Aug. 7, 1913; *c.* Robt. Purdy. B.S., Keuka Coll., 1911; grad. work at Cornell Univ.

Bliss, George R., co. agrl. agt., Davenport, Ia.

Chg. hort. ext., Ia. State Coll., 4 yrs. *b.* Geneseo, Ill., Feb. 3, 1882; *s.* Geo. E. and Florence (Mathews) B.; reared on farm; *m.* Carrie Helen Sperling, June 29, 1910; *c.* Geo. F., Laura. B.S.A., Ia. State Coll., 1908; M.S., 1912. Alpha Zeta; Delta Sigma Rho; Phi Kappa Phi.

Bliss, Ralph Kenneth, dir. agrl. ext., Ia. State Coll., Ames, Ia.

Chg. an. husb. ext., Ia. State Coll., 1906–11; acting-supt. agrl. ext., 1912; prof. an. husb., Univ. Neb., 1912–4; present position, 1914—. Farm manag., 1906. Organized first dairy assoc. in Ia.; chm. State Seed Stocks Comn.; state dir. U. S. Boys' Working Reserve. *b.* Diagonal, Ia., Oct. 30, 1880; *s.* Horace and Mary Ellen (Day) B.; reared on farm; *m* Ethel Eveleth McKinley, Sept. 14, 1912. B.S.A., Ia. State Coll., 1905. Phi Kappa Phi; Delta Sigma Rho.

Blodgett, Forest Milo, asst. ext. prof. plant path., Cornell Univ., Ithaca, N. Y.

Assoc. bot., N. Y. Exp. Sta., Geneva, 1914–5; present position, 1915—. *b.* Brocton, N. Y., Jul. 15, 1885; *s.* Silas B. and Clara Jane (Pierce) B.; reared on farm; *m.* Elsa Irene James, Jul. 1, 1914; *c.* Edward James. B.S.A., Cornell Univ., 1910; Ph.D., 1914.

Bluford, John Henry, prof. chem. and dir dept. agr., The Negro Agr. and Tech Coll., Greensboro, N. C.

Teach., summer high-sch., St. Louis, Mo., 1901–2; present position, 1902—. Sec. N. C. State Teach. Assoc. *Auth.:* Outlines of Qualitative Analysis, 1908. *b.* Sassafras, Va., May 16, 1876; *s.* John Wesley and Mary Ellen (Bluford) B. (col.); reared on farm; *m.* Viola C. Harris, June 29, 1910; *c.* John H. Jr., Guion Stewart, Lucile Harris. B.S., Howard Univ., Washington, D. C., 1900; A.M., 1905.

Boardman, John R., lect. and writer, Boy Scouts, 200 Fifth Ave., New York City.

Lect. Cornell Univ. summer sch. in rural leadership, 4 yrs. *Auth.:* Community Leadership, 1914. *Assoc. ed.,* Countryside Magazine, 1915. Speciality, rural social organization and leadership. *b.* Augusta, Me., Sept. 18, 1866; *s.* Samuel Lane and Temperance Ann (Bates) B.; reared at edge of country; *m.* Nettie Clark, Oct. 6, 1891; *c.* Alice Isabelle, Marian Bates. B.S., Univ. Me., 1888; Hartford Theol. Sem., 1895. Beta Theta Pi.

Bobb, B. Byron, farmer, Haynes, N. D.

Instr. Mekesukey Acad., 1898–9; lect. farmers' insts., N. D., 1914–8. Pres. N. D. Better Farming Assoc.; pres. N. D. Grimm Growers' Assoc. *b.* Orangéville, Ill., Oct. 17, 1873; *s.* Reuben P. and Amanda (Reager) B.; reared on farm; *m.* Susan M. Hotze, Nov. 3, 1902; *c.* May Elthea. A.B., Northwestern Univ., 1898. Phi Beta Kappa.

Bocker, Henry Edward, asst. dir. Black Sand Sta., Wenona, N. C.

Farmer and stockman, 30 yrs. *b.* N. Y., Jan. 1, 1870; *s.* Edward and Dora (Bracker) B.; reared in city and on farm.

Boddinghouse, Sidney Harold, invest. marketing fruits and vegetables, San Francisco Off. Market Surveys and Insp., 510 Battery St., San Francisco, Calif.

Chg. agrl. dept., Union high-sch., Phoenix, Ariz., 1912–3; co. hort., Klickitat Co., Wash., 1914–8; in chg. San Francisco Off. Market News Serv. and Food Products Insp. Serv., U. S. Bur. Markets, 1918—. Pres. W. Klickitat Co. Fair Assoc., 1915–6. *b.* Chicago,

Ill., Oct. 22, 1890; *s.* R. W. and Anna C. B.; reared in city; *m.* Ruth Templeton Dorris, May 27, 1913; *c.* Sarah, Sydney. B.S., Ore. Agr. Coll., 1912. Gamma Sigma Delta; Sigma Alpha Epsilon.

Bodwell, Joseph Henry, co. agrl. agt., Foxcraft, Me.

Farmer, Juneau Co., Wis., 1 yr. *b.* Hallowell, Me., Jul. 8, 1891; *s.* Willard A. and Carrie A. (Gage) B.; reared on farm; *m.* Irene Pearl Emery, June 24, 1916. B.S., Univ. Me., 1915. Sigma Alpha Epsilon; Alpha Zeta.

Boeger, Ernest Augustus, agrst., Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.

Princ. public schs., St. Jo, Tex., 1886; civil engin., Ft. Worth and Denver R. R., 1887; computer, U. S. Naval Observatory, 1893–1904; asst., 1905–11. *b.* Decatur Co., Ia., Apr. 14, 1863; *s.* Chas. and Anna (Klumke) B.; reared on farm; *m.* Mary A. Smith, June 20, 1892. A.B., Univ. Mo., 1882; S.B.C.E., 1884; M.A., 1885.

Bolley, Henry L., dean biol., N. D. Agr. Coll., and bot. and plant path. Exp. Sta., Agricultural College, N. D.

Asst. bot., Ind. Exp. Sta., 1889–90; bot. and zool., N. D. Agr. Coll. and Exp. Sta., 1890–1910; bot. and plant path., 1910—; dean biol., N. D. Agr. Coll., 1910—; state seed comnr., 1909—. Fellow A. A. A. S.; Am. Soc. Promotion Agrl. Sci. Sec. N. D. Improved Seed Growers' Assoc. Traveled Europe to invest. flax diseases for U. S. Dept. Agr., 1903. *b.* Manchester, Ind., Feb. 1, 1865; *s.* John and Mary (Broad) B.; reared on farm; *m.* Frances Barnett Sheldon, Sept., 1896; *c.* Don Sheldon. B.S., Purdue Univ., 1888; M.S., 1890. Phi Kappa Phi.

Bollinger, Walter LeRoy, co. agrl. agt., Pottsville, Pa.

b. Spring Grove, Pa., Dec. 7, 1891; *s.* Geo. S. and Annie (Menges) B.; reared on farm; *m.* Sarah Julius, Dec. 22, 1917. B.S., Penn. State Coll., 1917. Alpha Zeta.

Bolte, John Willard, writer, farmer and manufacturer, Indianapolis, Ind.

Instr. an. husb., Utah Agr. Coll., 1905–6; asst. prof. an. husb., R. I. State Coll., 1906–8. Founder, Chicago Agrl. Writers' Club. *Auth.:* The Backyard Farmer, 1914. *Ed.,* American Agricultural Magazine, 1914. *b.* Chicago, Ill., Sept. 21, 1884; *s.* Chas. Guy and Jessie (Willard) B.; reared in small town; *m.* Jessie Brown, June 21, 1906; *c.* John Henry, Brown, Chas. Guy II. B.S.A., Mich. Agr. Coll., 1905. Alpha Zeta.

Bomberger, Frank Byers, asst. dir. agrl. ext. serv. and specialist in rural organization and marketing, Md. State Coll. Agr., College Park, Md.

Prof. English and civics, Md. Agr. Coll., 1900–12; prof. econ. and political sci., 1912–4; dean rural econ., 1914–7; present position, 1917—. Traveled Mexico, summer 1900. *b.* Williamsport, Md., June 9, 1875; *s.* Emmanuel and Martha (Byers) B.; reared in rural town and country; *m.* Mary Elizabeth Blundon, Oct. 21, 1904; *c.* Lawrence Joseph. B.S., Md. Agr. Coll., 1894; M.S. (hon.), 1902; special work, Cornell Univ., 1900. Gamma Alpha; Gamma Pi.

Bonner, Edwin, co. agrl. agt., Hernando, Miss.

Superv. city backyard gardens, Memphis, Tenn., May–Aug., 1917; present position, 1917—. *b.* Enid, Miss., Sept. 17, 1884; *s.* James W. and Ida (Thomas) B.; reared on farm; *m.* Adra Hicks, Aug. 26, 1917. B.S.A., Miss. A. & M. Coll., 1917.

Bonnett, Robert Kline, asst. prof. farm crops, Kans. State Agr. Coll., Manhattan, Kans.

Asst. farm crops, Kans. State Agr. Coll., 1913–5; instr. 1916–7; asst. prof., 1917—. *b.* LeRoy, Ill., Jan. 21, 1892; *s.* Oscar and Grace (Kline) B.; reared on farm and in town; *m.* Martha Tunstall Aug. 24, 1915. B. S., Kans. State Agr. Coll., 1913; M. S. A., Univ. Wis., 1913. Alpha Zeta.

Bonsteel, Jay Allan, scientist, Bur. Soils, U. S. Dept. Agr., Washington, D. C.

Asst. Md. Geol. Survey, 1898–9; sci. in soil survey, 1899—; prof. soil invest., Cornell Univ., 1903–5. *b.* Huntington, W. Va., Apr. 13, 1873; *s.* Herbert Eugene and Jane Josephine (Jewell) B.; *m.* Edith M. Vaughan, Dec. 28, 1896. B.S., Cornell Univ., 1896; Ph.D., Johns Hopkins Univ., 1901.

Boone, Holt Horeb, co. agrl. agt., Walla Walla, Wash.

Supt. Boston Okanogan Apple Co.,

1913–4; princ. Okanogan high-sch., Wash., 1915–6. *b.* Colfax, Wash., Nov. 25, 1888; *s.* H. M. and Sarah (Holt) B.; reared in country town; *m.* Ella Thompson, May 31, 1916; *c.* Wm. Holt. B.S., Wash. State Coll., 1915. Sigma Nu; Alpha Zeta.

[Booth, C. J., p. 309.

Bordner, John Serenus, co. agrl. agt., South Bend, Ind.

Teach. biol., high-sch., Elwood, Ind., 1904–6; farm manag., 1908–13; co. agt., St. Jospeh Co., 1913—. Organized community centers in St. Joseph Co. *b.* Bristol, Ind., Feb. 23, 1877; *s.* John and Catherine (Dohmer) B.; reared on farm; *m.* Stanta D. Lung, June 10, 1908; *c.* Jean. A.B., Ind. Univ., 1904; Ph.D., Univ. Mich., 1908. Sigma Xi.

Boss, Andrew, vice-dir. Exp. Sta. and prof. agron. and farm manag., Univ. Minn., University Farm, St. Paul, Minn.

Pres. Am. Farm Manag. Assoc., 1915; sec. Minn. Live-Stock Breeders' Assoc., 1902–12; pres. Minn. Farm Manag. Assoc., 1918. *Auth.:* Farm Management for Secondary Schools, 1913. *b.* Wabaska Co., Minn., June 3, 1867; *s.* Andrew and Janet (Nesbit) B.; reared on farm; *m.* Evalena La Mont, Dec. 15, 1891; *c.* Hazel Vivian, Elna Violet, Mabel Evelyn, Kenneth Andrew, Wallace La Mont. Sigma Xi; Alpha Zeta; Gamma Sigma Delta.

Boston, Lawrence Baker, co. agrl. agt., Hyannis, Mass.

Instr. agr., Madawaska Training Sch., Fort Kent, Me., 3½ yrs.; instr. agr., Petersham, Mass., agrl. high-sch., ½ yr.; instr. agr., Sandwich, Mass., high-sch., 2 yrs. Supt. Faunce Dem. Farm, Sandwich, 1913–6. Compiler, Laboratory Exercises in Secondary School Agriculture, 1912. *b.* Biddiford, Me., Nov. 1, 1887; *s.* Geo. Francis and Addie (Baker) B.; reared in city; *m.* Sadie M. Buzzell, Jul. 25, 1908; *c.* Margaret Mary, Hildred Elizabeth. Studied Univ. Me., 2 yrs., Bates Coll., 1 term.

Boswell, Stephen Roy, co. agrl. agt., Coalville, Utah.

b. Nephi, Utah, Oct. 6, 1890; *s.* Stephen and Ann P. (Garrett) B.; reared on farm; *m.* Armina Huff, June 21, 1916; *c.* Gladys Irene. B.S., Utah Agr. Coll., 1916. Traveled in S. Africa, Madeira, England.

Bosworth, Alfred Willson, biol. chem., Boston Floating Hospital, 54 Devonshire St., Boston, Mass.

Assoc. chem., N. Y. Exp. Sta., Geneva, 1905–16; instr. biol. chem., Harvard Med. Sch., 1912–3. Specialty, chem. of milk. *b.* Warren, R. I., Feb. 1, 1879; *s.* Daniel and Rebecca Mayhew (Willson) B.; reared in city; *m.* Edith May Flemming, Oct. 10, 1905; *c.* Alfred Willson Jr.; Everett Whipple. B.S., R. I. State Coll., 1899; A.M., Harvard Univ., 1913.

Bouquet, Arthur George Bristow, prof. veg. gard., Ore. Agr. Coll., Corvallis, Ore.

Instr. hort., Ore. Agr. Coll., 1909–11; asst. veg. gard., 1911–2; asst. prof., 1912–5; assoc. prof., 1915–6; prof., 1916—; olericulturist Exp. Sta., 1912—. Vice-pres. for Ore., Veg. Growers' Assoc. of Am. Traveled in England and France. *Ed.* gard. dept., Pacific Homestead. *b.* Sutton, England, Mar. 9, 1885 (naturalized 1912); *s.* Alexander and Laura (Starkey) B.; reared in country; *m.* Grace Mary Wilson, June 26, 1912. B.S., Ore. Agr. Coll., 1906; grad. student, Mass. Agr. Coll., 1908–9.

Bourne, Richard Franklin, prof. vet. physiology, Colo. Agr. Coll., Fort Collins, Colo.

Prof. histology and physiology, Kans. City Vet. Coll., 1906–18; present position, 1918—. Vet. insp., U. S. Dept. Agr., June–Sept., 1908. Sec.-treas., Mo. Valley Vet. Assoc., 1915—. *b.* Delphos, Kans., Feb. 7, 1881; *s.* Daniel M. and Amelia (Spencer) B.; reared on farm; *m.* Edna Mason, Sept. 6, 1905; *c.* Richard Mason, Marjorie Helen. B.S., Kans. State Agr. Coll., 1903; D.V.S., Kans. City Vet. Coll., 1906. Alpha Psi; Phi Kappa Phi.

Boutelle, C. A., asst. prof. an. husb. ext., Cornell Univ., Ithaca, N. Y.

Manag. farms, N. Y., Mass., Ala., 14 yrs.; instr. military, Elm Hill Sch., Barre, Mass. *b.* Leominster, Mass., Aug. 1, 1881; *s.* Henry A. and Martha (Powers) B.; reared on farm; *m.* Ethel I. Barr, Nov. 12, 1902; *c.* Ernestine I. B.S., Mass. Agr. Coll. Phi Sigma Kappa.

Boving, Paul Axel, assoc. prof. agron., Univ. B. C., Vancouver, B. C.

Teach. Ronneby Peoples' High-Sch., Sweden, 1900; in chg. root crop invest., Macdonald Coll., Que., 1910–6; present

position, 1916—. Practical farmer, Sweden, Denmark, Germany, 1889–96. *Ed.*, Journal of Agriculture for Western Sweden, 1904–9. *b.* Sweden, Sept. 16, 1871 (naturalized 1913); *s.* Paul and Lida (Wengel) B.; reared on farm; *m.* Lynette Hope Wren; *c.* Ellen Marie. B. A., Malmo, Sweden; B. S. A., Alnarp, Sweden.

Bowen, John Thomas, tech., Bur. An. Ind., U. S. Dept. Agr., Washington, D. C.

Draftsman, Wm. Cramp & Sons Ship Yards, 5 yrs.; expert electrical aid to Chief Naval Constructor, Navy Yard, N. Y., 3 yrs.; Newport News, 3 yrs.; Bur. Construction and Repair, Navy Dept., Washington, 1 yr.; present position, 1911—. Specially interested in electrical, mechanical and refrigerating engin. as applied to agr., particularly dairying. *b.* Easley, S. C., Aug. 29, 1873; *s.* Thos. Jefferson and Emma Caroline (Briggs) B.; reared on farm; *m.* Georgetta Steedly, Sept. 6, 1911; *c.* Martha Caroline ,John T. Jr. B.S., Clemson Agr. Coll., 1896.

Bower, Russell Forrest, farmer, Campbell, Va.

Dir. Va. Div., Farmers' Educ. and Coop. Union of Am. Sec. Fed. Bd. of Farm Organizations. *b.* Berwick, Pa., Nov. 15, 1885; *s.* Lahmann Forrest and Gertrude E. (Hennigar) B.; reared in town; *m.* Margaret L. Kirkpatrick, Apr. 15, 1909; *c.* Russell Kirkpatrick, Margaret Hennigar. B.A., Wesleyan Univ., 1907. Alpha Delta Phi.

Bowers, John Hugh, dean Sch. Educ., Okla. A. & M. Coll., Stillwater, Okla.

Formerly teach. rural schs., W. Va. State Normal; city supt. schs., Covington, Tenn., 1906–8; present position, 1909—. *b.* W. Va., 1875; *s.* Josephus and Emily (Bond) B.; reared on farm; *m.* Pearl E. Copeland, 1902; *c.* Copeland, John Alden, Garvey Bruce. A.B., LL.B., W. Va. Univ., 1903; A.M., Ph.D., Ill. Wesleyan, 1907.

Bowman, Albert Elijah, dir. ext. work, Univ. Wyo., Laramie, Wyo.

Asst. agron., Utah Agr. Coll., 1911–3; asst. state leader co. agts., Univ. Wyo., 1913–4; dir. ext., 1914—. Dir. institutes in Wyo. *Ed.*, Wyo. Farm Bulletin. *b.* W. Weber, Utah, Jan. 23, 1881; *s.* Andrew G. and Hannah (Clayton) B.; reared on farm; *m.* Mary E. Brown, Dec. 15, 1910; *c.* Ramona. B.S.A., Utah Agr. Coll., 1911. Pi Zeta Pi; Gamma Sigma Delta.

Bowman, Garlen L., princ. Dunn Co. Training Sch. for Teachers, Menomonie, Wis.

Teach. country schs., 6 yrs.; princ. Wis. high-sch., 16 yrs.; prof. reading and math., State Normal Sch., Superior, Wis., 1896–1902; princ. Waupacca Co. Training Sch., New London, 1902–4; present position, 1904—. Sec. Wis. Teach. Assoc., 1896. *Auth.:* Ethical Classification of Students, 1917. *b.* Eaton, O., Mar, 24, 1855; *s.* Eli and Julia Ann (Stanton) B.; reared on farm; *m.* Alice Mero, Aug. 15, 1884; *c.* Clyde A.

Bowman, Jacob Kreider, superv. agrl. educ., 22 Union Trust Bldg., Harrisburg, Pa.

Princ. high-sch., Schaefferstown, Pa., 1906; prof. modern languages, Indiana Normal Sch., Indiana, Pa., 1911–4; dir. voc. sch., Avondale, 1916–8; present position, 1918—. *b.* Campbelltown, Pa., Apr. 12, 1887; *s.* Joseph and Susan (Kreider) B.; reared on farm; *m.* Elizabeth Stephenson, Sept. 7, 1915; *c.* Joseph Edward. A.B., Bucknell Univ., 1911; B.Sc., Univ. Wis., 1916; M.Sc., Bucknell Univ., 1916. Delta Theta Upsilon.

Boyce, Charles Ward, co. agrl. agt., Victoria, Tex.

Stockman and farmer, 1908–18; present position, 1918—. *b.* Moulton, Tex., Sept. 11, 1882; *s.* C. H. and Kate (McKinney) B.; reared on farm; *m.* Stella Pearl Pickerill, June 25, 1911; *c.* Katie Belle, Charlotte, Chas. W. Jr. B.S., Tex. A. & M. Coll., 1905.

Boyd, Harwell L., co. agrl. agt., Clinton, N. C.

General manag. plantation, Estill, Miss., 1915–6; present position, 1916—. *b.* Holmesville, Miss., Sept. 25, 1887; *s.* Jno. W. and A. L. (Beard) B.; reared on farm; *m.* Hattie Elizabeth May, Dec. 21, 1916. B.S., Miss. A. & M. Coll., 1915.

Boyle, James Ernest, ext. prof. rural econ., Cornell Univ., Ithaca, N. Y.

Prof. econ. and political sci., Univ. N. D., 1904–16; field agt. marketing, N. D. Exp. Sta., 1916–7; asst. food supply

invest., Bur. Markets, U. S. Dept. Agr., 1917–8; present position, 1918—. Sec. N. D. Potato Growers' Assoc. *Auth.:* Financial History of Kansas, 1904; Government of North Dakota, 1910; Beginners' Civics for North Dakota, 1912. Contributing ed. to Cooperation, 1910–3; ed., A Westland Educator, 3 yrs. *b.* Boyle, Kans., Nov. 22, 1873; *s.* John and Mary Ann (Searl) B.; reared on farm; *m.* Effie Lytle, Sept. 13, 1902; *c.* Elizabeth Louise. A.B., Univ. Neb., 1900; A.M., Univ. Kans., 1901; Ph.B., Univ. Wis., 1904.

Boyle, Jesse George, assoc. prof. hort., Purdue Univ., LaFayette, Ind.

Instr. hort., Purdue Univ., 1908–11; asst. prof., 1912–3; assoc. prof., 1914—. Farm operator, 1912—. *b.* Glendora, Mich., Nov. 27, 1883; *s.* Thomas Eugene and Nettie Elizabeth (Crandall) B.; reared on farm; *m.* Gracie Mae Shirk, June 30, 1908; *c.* two. B.S., Mich. Agr. Coll., 1908; M.S.A., Purdue Univ., 1911; Mast. of Hort., Mich. Agr. Coll., 1914. Alpha Zeta.

Bracken, John, prof. field husb., Univ. Sask., Saskatoon, Sask.

Western rep., Dominion Seed Branch, 1906–7; supt. fairs and farmers' insts., Sask., 1907–9; present position, 1909—. *b.* Sceley's Bay, Ont., June 22, 1883; *s.* E. M. and Alberta (Gilbert) B.; reared on farm; *m.* Alice Wylie Bruce, June 22, 1909; *c.* Bruce, Douglas, Gordon, Murray. B.S.A., Ont. Agr. Coll., 1906.

Brackett, Elmer Eugene, assoc. prof. agrl. engin., Univ. Neb., Lincoln, Neb.

Instr. elec. engin., Univ. Penn., 1907–10; present position, 1910—. 1st Lieut. A. S., Sig. R. C., 1918—. *b.* Jamesburg, N. J., Nov. 22, 1876; *s.* Benjamin F. and Anne E. (Lary) B.; reared on farm; *m.* Minnie B. Guile, Sept. 17, 1903; *c.* Mary, Annie, E. E. Jr. B.Sc. in E.E., Univ. Neb., 1901.

Bradford, Harry E., prof. agrl. educ. and princ. Univ. Sch. Agr., Univ. Neb., Lincoln, Neb.

Princ. Geneva, Neb., high-sch., 1899–1902; supt. Chadron city schs., 1904–5; supt. Aurora city schs., 1905–9; supt. Kearney city schs., 1909–12; present position, 1912—. *b.* Sheboygan, Wis., Feb. 12, 1878; *s.* DeWitt A. and Almeda V. (Crocker) B.; reared on farm and in town; *m.* Ethel King, Dec. 27, 1904; *c.* Eloise Marguerite. A.B., Univ. Neb., 1904; A.M., 1917. Phi Delta Kappa.

Bradlee, Thomas, dir. agrl. ext. serv., Univ. Vt., Burlington, Vt.

Instr. agr. and farm supt., Smith's Agr. Sch., Northampton, Mass., 1911–3; present position, 1913—. *b.* Lewiston, N. Y., Oct. 9, 1885; *s.* Chas. Nathaniel and Ella Jane (Nichols) B.; reared on farm; *m.* Jennie Lena Rowell, Oct. 9, 1918. B.S.A., Cornell Univ., 1911. Alpha Zeta.

Bradley, James Chester, asst. prof. systematic ent., Cornell Univ., Ithaca, N. Y.

Asst. ent., Cornell Univ., 1905–6; asst. ent., Univ. Calif., 1906–7; asst. ent., Cornell Univ., 1907–9; fellow ent., 1909–10; asst. prof., 1911—; exchange prof., Univ. Calif., 1917–8. Collecting exped. in Canadian Rocky and Selkirk Mts., Pacific Coast, Okefenoke Swamp. Speciality, taxonomy of Hymenoptera. *b.* W. Chester, Pa., Feb. 11, 1884; *s.* Daniel Hiester and Lucy Virginia (Blanchard) B.; reared on farm. A.B., Cornell Univ., 1906; M.S., Univ. Calif., 1907; Ph.D., Cornell Univ., 1910. Sigma Xi; Gamma Alpha ; Pi Kappa Alpha.

Bradt, Emerson Peart, agrl. rep., Morrisburg, Ont.

Asst. agrl. rep., Lamark Co., 1910–1; agrl. rep., Dundas Co., 1912—. Sec. Dundas Co. Bd. Agr.; sec. and manag. St. Lawrence Valley Fruit-Growers' Assoc. *b.* Cayuga, Ont., Jan. 17, 1885; *s.* Levi and Mary Ann (Peart) B.; reared on farm; *m.* Margaret Bell Cox, Dec. 25, 1912; *c.* Oliver Augustine, Marjorie Lorraine. B.S.A., Ont. Agr. Coll., 1912.

[Branch, G. V., p. 309

Brand, Charles John, chief Bur. Markets, U. S. Dept. Agr., Washington, D. C.

b. Lac-qui-Parle Co., Minn., Oct. 24, 1879; *s.* Chas. and Mary (Buri) B.; reared on farm and country village; *m.* Mary E. Vining, Dec., 1903. B.A., Univ. Minn., 1903. Sigma Xi.

Brandt, Philip Martin, prof. dairy husb., Ore. Agr. Coll., Corvallis, Ore.

Asst. dairy husb., Univ. Mo., 1911–2; instr., 1912–4; asst. prof., 1914; supt. short courses and asst. to dean, 1914–7; present position, 1917—. Sec. Mo. State Dairy Assoc., 1911–5; sec. Ore. Dairymen's Assoc., 1918—. *b.* Nevada, Mo.,

Aug. 6, 1888; *s.* Geo. Adam and Anna (Upp) B.; reared on farm; *m.* Mattie May Torr, Mar. 1, 1911; *c.* Harriett Anne, Philip M. Jr. B.S. in Agr., Univ. Mo., 1910; A.M., 1913. Gamma Sigma Delta.

Branson, Eugene C., prof. rural econ. and sociol., Univ. N. C., Chapel Hill, N. C.
Teach. country sch., N. C., 1881–2; princ. high-sch., Raleigh, N. C., 1883–4; supt. sch., Wilson, N. C. and Athens, Ga., 1886–97; prof. pedagogy, Ga. State Normal and Ind. Coll., 1897–1900; pres. Ga. State Normal Sch., Athens, 1900–12; present position, 1913—. Mem. Moseley Comn. Am. Teachers studying English schs. Three trips to Europe. Dir. Food Administration, Orange Co., N. C. Mem. N. C. State Council of Defense. Dir. Nat. Country-Life Assoc., and Am. Assoc. Agrl. Legislation. *Auth.:* Methods of Teaching Arithmetic, 1896; Methods of Teaching Reading and Spelling, 1896; Revised Page's Theory and Practice of Teaching, 1899. *Ed.*, Farm and Homestead, Athens, Ga.; Ga. Edition Arnold's Waymarks for Teachers, 1900; Ga. Edition Shaw's School Hygiene, 1901; Branson's Common-School Spellers, 1900; Johnson's Readers; Farm-Life Studies in the South; N. C. Club Year-Books; Univ. N. C. News Letter, 1914—. *b.* Morehead City, N. C., Aug. 6, 1861; *s.* Levi and Edith (Cunningham) B.; reared in town and country; *m.* Lottie Lanier, Sept. 27, 1889; *c.* Frank Lanier, Edith, Philip, Elizabeth. A.M., Trinity Coll., N. C.; A.M., Peabody Coll., Nashville, Tenn., 1906. Alpha Tau Omega.

Brant, William O., co. agrl. agt., Vinton, Ia.
b. Meriden, Ia., Mar. 18, 1886; *s.* John and Hedvig (Johnson) B.; reared on farm; *m.* Mamie Heline, Mar. 31, 1918. B.S.A., Ia. State Coll., 1912.

Braun, G. Edward, sci. asst. in dairying, U. S. Dept. Agr., Mt. Vernon, Wash.
b. Beaver Falls, Pa., Oct. 25, 1892; *s.* Gottfried and Anna (Meckelburg) B.; reared on farm. B.S.A., Penn State Coll., 1916.

Braunton, Ernest, lands. designer, 6410 Elgin St., Los Angeles, Calif.
Prof. lands. gard., Univ. S. Calif., 1914—. Mem. Park Comn., Los Angeles, 1916—. *Auth.:* The Garden Beautiful in California, 1915. *Ed.* gard. dept., Los Angeles Times, 1903—. *b.* London, England, Aug, 21, 1867 (naturalized as minor); *s.* Wm. and Emma (Haslett) B.; reared in town and on farm; *m.* Addie M. Kirkpatrick, May 17, 1899; *c.* Bertram, Helen, Marian, Stanley, Ernestine.

Bray, Charles Iseard, assoc. prof. an. husb., Colo. Agr. Coll., Fort Collins, Colo.
Manag. dairy herd, Miss. A. & M. Coll., 1904–10; asst. prof. an. husb., Okla. A. & M. Coll., 1910–3; assoc. prof., 1913–4; present position, 1915—. Livestock ed., Okla. Farmer and Stockman, 1912–4. *b.* Huntsville, Ont., Jul. 29, 1882 (naturalized 1917); *s.* Edward and Charlotte Elder (Brackenridge) B.; reared on farm; *m.* Edith Agnes Russell, Aug. 8, 1912. B.S.A., Ont. Agr. Coll., 1904; M.S., Miss. A. & M. Coll., 1907.

Breed, Robert S., bact., N. Y. Agr. Exp. Sta., Geneva, N. Y.
Instr. biol., Univ. Colo., 1898–9; asst. zool., Harvard Univ., 1900–2; prof. biol., Allegheny Coll., 1902–13; present position, 1913—. Fellow A. A. A. S. Del. VIII. Inter. Zool. Congress, Austria, 1910; del. VI. Inter. Dairy Congress, Switzerland, 1914. Operated dairy farm, 1899–1910. *b.* Brooklyn, Pa., Oct. 17, 1877; *s.* Robt. Fitch and Emma (Beers) B.; reared on farm; *m.* Louise Miller Heim, Aug. 23, 1899 (d. 1905); 2d, Emma Margaret Edson, Jul. 2, 1913; *c.* Alice F. B.S., Amherst Coll., 1898; M.S., Univ. Colo., 1899; Ph.D., Harvard Univ., 1902; studied at Landwirtschaftliches Inst., Univ. Goettingen, winter, 1910; Univ. Kiel and Kiel Versuchsstation für Molkeriwesen, summer, 1911. Phi Beta Kappa; Sigma Xi; Phi Gamma Delta.

Brengle, Henry Irwin, co. agrl. agt., Giddings, Tex.
Farmer, Tex., 5 yrs. Traveled in Cuba, 1903–4; northern Mexico, 1912. *b.* Tampa, Fla., June 25, 1891; *s.* Samuel F. and Mary A. (Keigwin) B.; reared in city and on farm; *m.* Mary Pauline Ott, Dec. 24, 1914; *c.* Mary Pauline. B.S.A., Ala. Poly. Inst., 1912.

Brenneman, John Arden, co. agrl. agt., Clarion, Pa.
Sch. teach., Lehighton, Pa., 1910–2; agt. Clarion Co., 1916—. *b.* Mechanics-

burg, Pa., Aug. 14, 1890; *s.* W. P. and Mary A. (Kimmel) B.; reared on farm. B.S., Penn. State Coll., 1916. Phi Kappa Phi.

Bressler, Raymond George, asst. dir. voc. agr. for State Bd. Voc. Educ., Austin, Tex.

Asst. prof. English and public speaking, Tex. A. & M. Coll., 1910–5; asst. div. public discussion, Univ. Tex., 1915–6; assoc. prof. rural sociol. and head rural educ., Dept. of Ext., 1916–7; present position, 1917—. *Auth.:* Questions on Readings in English Literature, 1914; Manual of Pronunciations, 1915; Co-ordinated Steps in Public Speaking, 1917. *b.* Halifax, Pa., Mar. 9, 1887; *s.* Ryan Andrew and Mary Ellen (Etzweiler) B.; reared on farm; *m.* Sadie Lebo, Feb. 4, 1910; *c.* Raymond G. Jr., Angelin. A.B., Valparaiso Univ., 1908; M.A., Wofford Coll., 1910; M.S., Univ. Wis., 1917. Alpha Epsilon.

Brew, James Duncan, assoc. dairy bact., Univ. Ill., Urbana, Ill.

Asst. bact., N. Y. Exp. Sta., Geneva; present position, 1917—. *b.* Bergen, N. Y., Oct. 22, 1881; *s.* Duncan and Katerine (Sutherland) B.; reared on farm; *m.* Lucy W. Bergan, Sept. 29, 1914; *c.* two. B.S., Cornell Univ., 1912. Sigma Xi.

Brewster, Charles Stockton, asst. prof. poultry husb., Ore. Agr. Coll., Corvallis, Ore.

Research asst. poultry husb., Ore. Agr. Coll., 1914–5; instr., Cornell Univ., 1915–6; instr., Purdue Univ., 1916–7; present position, 1917—. *b.* Minneapolis, Minn., Jul. 22, 1886; *s.* Chas. E. and Fannie May (Edwards) B.; reared in city; *m.* Rachel Webb Haight, Aug. 7, 1917. B.S.A., Ore. Agr. Coll., 1913. Gamma Alpha; Gamma Sigma Delta.

Bricker, Garland Armor, prof. agrl. teaching and dir. rural ext. serv., Coll. Agr., Syracuse Univ., Syracuse, N. Y.

Asst. agrl. educ., Ohio State Univ., 1909–10; prof., 1910–6; present position, 1916—. Chm. exec. com., Am. Assoc. for Adv. Agrl. Teaching. *Auth.:* The Teaching of Agriculture in the High-School, 1911; Solving the Country Church Problem, 1913; Agricultural Education for Teachers, 1914; The Church in Rural America, 1918; Illustrated Lessons in Agriculture, 1918. *Ed.,* The Rural Educator. *b.* Etna, Licking Co., O., Mar. 20, 1881; *s.* David A. and Christianna A. (Rudolph) B.; reared in country village; *m.* Mabel McClelland. B.Ped., Lima Coll., 1907; B.S.A., Ohio State Univ.; M.A., Univ. Ill., 1910.

Brierley, Wilfrid Gordon, assoc. prof. pom., Univ. Minn., University Farm, St. Paul, Minn.

Hort., Nat. Farm Sch., Doylestown, Pa., 1907–9; instr. hort., Wash. State Coll., 1909–13; asst. prof. hort., Univ. Minn., 1913–7; assoc. prof., 1917—; chm. Div. Hort., 1915—. Vice-pres. for Minn., Am. Pom. Soc., 1913–5. *b.* Dover, N. H., Sept. 9, 1885; *s.* Benjamin and Harriet (Tarbuck) B.; reared in city suburbs; *m.* Beulah Wellman, June 30, 1914; *c.* Wilfrid G. Jr. B.S.A., Cornell Univ., 1906; M.S., Wash. State Coll., 1913. Zeta Epsilon Zeta; Gamma Sigma Delta; Alpha Zeta.

Briggs, George McSpadden, co. agrl. agt., Grantsburg, Wis.

Farmer and stockman, Dak., 1907–10; farmer, Minn., 1910–1; corn invest. work, Univ. Minn., 1911–3. *b.* Houston, Minn., May 19, 1884; *s.* Henry R. and Octavia (McSpadden) B.; reared on the farm; *m.* Mary McNelly, 1909; *c.* Helen, Wm. Randolph. B.S., Univ. Minn., 1916.

Brigham, Elbert Sidney, state comnr. agr., St. Albans, Vt.

Present position, 1913—. Pres. Vt. Hort. Soc., 1904–5; pres. Vt. Farmers' War Council; mem. New England Fed. Milk Comn.; mem. Adv. Com. on Nat. Agrl. Problems. Farmer, 1903—. Head butter and cheese sect., U. S. Food Administration, 1918—. *b.* St. Albans, Vt., Oct. 19, 1877; *s.* Sanford J. and Sarah J. (Bronson) B.; reared on farm; *m.* Anna S. Hazen, Oct. 2, 1906. B.S., Middlebury Coll., 1903; M.S., Univ. Vt., 1913 (hon.). Phi Beta Kappa; Delta Kappa Epsilon.

Bristol, Lucius Moody, assoc. prof. sociol., W. Va. Univ., Morgantown, W. Va.

Instr., Tufts Coll., 1911; asst. prof., 1912–3; asst. prof., Brown Univ., 1913–5; asst. prof., W. Va. Univ., 1915–7; assoc. prof., 1917—. Pres. State Conference

of Charities and Correction. Specially interested in rural problems. *Auth.:* Social Adaptation, 1915. *b.* Castle Creek, N. Y., May 21, 1872; *s.* Wm. Harrison and Harriet (Blair) B.; reared in city; *m.* Minnie E. Babcock, June 27, 1901; *c.* Loris Rood, Wilma Harriet. A.B., Univ. N. C., 1895; S.T.B., Boston Univ. Sch. Theol., 1899; M.A., Harvard Univ., 1910; Ph.D., 1913 (received Wells prize in econ., 1915). Phi Beta Kappa; Alpha Delta Phi.

Brittain, William Harold, provincial ent. and prof. ent., N. S. Agr. Coll., Truro, N. S.

Asst. biol., Macdonald Coll., 1911–2; asst. bot., Seed Branch, Dept. Agr., Ottawa, 1912; provincial ent. and plant path., B. C., 1912–3; present position, 1913—. Sec.-treas. N. S. Ent. Soc. *b.* Fredericton, N. B., Sept. 30, 1889; *s.* John and Charlotte (Bonney) B.; *m.* Mary M. Cruickshank, Mar. 27, 1918. B.S.A., McGill Univ. Sigma Xi.

Britton, Wilton Everett, state ent., and ent. Conn. Exp. Sta., New Haven, Conn.

Hort., Conn. Exp. Sta., 1894–1901; ent. and state ent., 1901—; lect. in ent., Yale For. Sch., 1901–5. Fellow A. A. A. S.; Ent. Soc. Am. Pres. Am. Assoc. Econ. Ent., 1909. *Assoc. ed.,* Journal of Economic Entomology, 1910—. *b.* Marlboro, Mass., Sept. 18, 1868; *s.* Benjamin Howard and Emma Eliza (Wright) B.; reared on farm; *m.* Bertha Madeline Perkins, Apr. 30, 1895. B.S., N. H. A. & M. Coll., 1893; Ph.D., Yale Univ., 1903. Sigma Xi.

[**Brodie, D. A.,** p. 309.

Brody, Clark Louis, co. agrl. agt., Port Huron, Mich.

Farm operator, 1905—; agt. St. Clair Co., Mich., 1915—. Pres. St. Joseph Co. Farm Bur., 1914–5. *b.* Three Rivers, Mich., Feb. 1, 1879; *s.* Jas. P. and Emma L. Seeley; reared on farm; *m.* Margaret E. York, Nov. 14, 1906; *c.* Viola, Marjorie, Beatrice, Carol, Clark Jr. B.S., Mich. Agrl. Coll., 1904. Alpha Zeta.

Bronson, Wesley Hotchkiss, farm manag. dem., Mass. Agr. Coll., Amherst, Mass.

Teach. agr., Marlborough, Mass., high-sch., 1913–5; present position, 1915—. *b.* Ansonia, Conn., Jan. 31, 1888; *s.* Edward S. and Martha J. (Trumpbour) B.; reared in city and on farm; *m.* Katherine Morse, Nov. 27, 1915. B.S., Cornell Univ., 1913. Alpha Zeta.

Brooks, Fred Ernest, ent. asst., Bur. Ent., U. S. Dept. Agr., French Creek, W. Va.

Agt. W. Va. Exp. Sta., 1903–6; assoc. ent., 1907–11; present position, 1911—. Fellow A. A. A. S. Sec. W. Va., State Hort. Soc., 1905–6. *b.* French Creek, W. Va., June 8, 1868; *s.* Adolphus and Josephine (Phillips) B.; reared on farm; *m.* Grace Coburn, Sept. 3, 1896; *c.* Maurice Graham, Mary Elizabeth, Dorothy Josephine.

Brooks, Robert Preston, prof. hist., Univ. Ga., Athens, Ga.

Asst., assoc., and prof. hist., Univ. Ga., 1907—. Mem. Ga. Library Comn.; Univ. Comn. on Southern Race Questions. Made invest. of plantation conditions for Bur. Census, 1911. *Auth.:* Bibliography of Georgia History, 1910; History of Georgia, 1913; Agrarian Revolution in Georgia, 1914; Bibliography and Syllabus for the History of the South, 1918. *b.* Milledgeville, Ga., Jul. 23, 1881; *s.* James H. and Anna (Moore) B.; reared in town; *m.* Jospehine Edmondson Reid; *c.* Josephine Reid, Eugenia Preston. A.B., Univ. Ga., 1904; B.A., Oxford Univ., England, 1907; Ph.D., Univ. Wis., 1912. Phi Beta Kappa; Alpha Tau Omega.

Brooks, Thomas Joseph, prof. markets and rural econ., Miss. A. & M. Coll., Agricultural College, Miss.

Sec. Tenn. Farmers' Union, 3 yrs.; nat. lect. on agrl. legislation of Farmer's Union, 8 yrs. Bienial del. of U. S. to Inter. Inst. Agr. 1913. Tenn. State Senator, 1911–2. Traveled various foreign countries. Farmer. *Auth.:* March of Intellect, 1909; Markets and Rural Economics, 1914. *b.* Atwood, Tenn., Oct. 17, 1870; *s.* T. B. and Matilda Jane (Anderson) B.; reared on farm; *m.* Lelia Perkins, 1915; *c.* T. J. Jr., Willard Banks. Attended Southern Normal Univ.

Brooks, William Penn, dir. Mass. Exp. Sta., Amherst, Mass.

Prof. agr., Imperial Coll. Agr., Japan, 1877–88; prof. bot., 1880–8; acting pres., 1880–3, 1886–7; prof. agr., Mass Agr. Coll. and agrst. Exp. Sta., 1889—; acting pres., Jan.-Apr., 1903, Jan. 1905–July, 1906; present position, 1906—.

Fellow A. A. A. S. Decorated 4th Order of Rising Sun, Japan, 1888. Second vice-pres. Am. Assoc. Agrl. Colls. and Exp. Stas.; pres. Hampden-Hampshire Agrl. Soc. Farm operator, 1908–12. Traveled in Japan and Europe. *Auth.:* Agriculture, 3 vols., 1901; rev., 1903, 1905, 1911. *b.* Scituate, Mass., Nov. 19, 1851; *s.* Nathaniel and Rebecca P. (Cushing) B.; reared on farm; *m.* Eva Bancroft Hall, Mar. 28, 1882; *c.* Rachel Bancroft, Sumner Cushing. B.S., Mass. Agr. Coll., 1875; Ph.D., Friedrichs-universitat, Halle, Germany, 1897. Phi Sigma Kappa.

Brossard, Howard S., co. agrl. agt., Billings, Mont.

b. Oxford, Ida., Mar. 13, 1894; *s.* Alphonse and Mary (Hobson) B.; reared on farm; *m.* Shirley Rogers; *c.* Stratford, Bernice. B.S., Utah Agr. Coll., 1916. Phi Kappa Iota.

Brossard, Rolland Elmer, co. agrl. agt., Idaho Falls, Ida.

Del. to Inter. Dry Farming Congress, 1913. *b.* Oxford, Ida., Aug. 22, 1891; *s.* Alphonse and Mary (Hobson) B.; reared on ranch; *m.* Lelia Taylor, Nov. 26, 1914; *c.* Robt. Elmer. B.S., Utah Agr. Coll., 1913. Delta Theta Sigma.

Brougham, Earl G., co. agrl. agt., Walton, N. Y.

b. Van Etten, N. Y., Aug. 31, 1890; *s.* Robt. J. and Hattie E. (Knowles) B.; reared on farm; *m.* Helen M. Roberts, Dec. 25, 1917. B.S., Cornell Univ., 1914.

Brown, A. Abbott, prof. poultry husb., Syracuse Univ., Syracuse, N. Y.

Instr. poultry husb., Mass. Agr. Coll., 1912–4; present position, 1914—. Farmer. *b.* Waterloo, Wis., Feb. 21, 1890; *s.* Sidney A. and Lydia B. (Thompson) B.; reared on farm; *m.* Ethel L. Price, Aug. 5, 1914; *c.* Clifford Roscoe. B.S., Univ. Wis., 1912.

Brown, Addison Makepeace, sec. Mich. Agr. Coll. and State Bd. Agr., E. Lansing, Mich.

Member State Senate, 1898–1900. Del. to First Nat. Conference on Marketing and Farm Credits. *b.* Schoolcraft, Mich., Feb. 15, 1859; *s.* E. Lakin and Mary Ann (Miles) B.; reared on farm; *m.* Mollie Eliza Earl, Sept. 29, 1885; *c.* Hearty Earl, Edward Lakin, Dorothy Miles, Malcolm Makepeace, Pamela. B.A., Univ. Mich., 1883. Psi Upsilon.

Brown, Bliss S., prof. hort. and head dept., Univ. Me., Orono, Me.

Asst. hort., Baron De Hirsch Agr. Sch., Woodbine, N. J., 1907–8; hort., 1908–9; instr. hort., Univ. Calif., 1909–12; present position, 1913—. *Auth.:* Modern Fruit Marketing, 1916; Modern Propagation Tree Fruits, 1916. *b.* Williams Center, O., Sept. 15, 1880; *s.* A. C. and Celestia (Shirkey) B.; reared on farm; *m.* Jella J. Williamson, Aug. 12, 1912; *c.* Marvin R., Victor H. B.S., Mich. Agr. Coll., 1903; M.S., Univ. Calif., 1911.

Brown, Dillon Sidney, pres. Exchange Bank, Genoa, Ill.

Pres. DeKalb Co. Soil Improvement Assoc. *b.* Genoa, Ill., May 12, 1852; *s.* Jeremiah Libby and Eliza Ann (Jackman) B.; reared on farm; *m.* Emily E. Pond, May 16, 1878; *s.* Earle Wesley, Bayard. M.S., Univ. Ill., 1875.

Brown, Earl Ayres, co. agrl. agt., 145 Oakland Terrace, Hartford, Conn.

Asst. princ., agrl. high-sch., Sparks, Md., 1913–5; asst. agrst. in farm manag. dem., U. S. Dept. Agr., 1915–7; agt. Hartford Co., Conn., 1917—. *b.* Montour Falls, N. Y., May 8, 1891; *s.* Oscar M. and Almeda M. (Ayres) B.; reared on farm; *m.* Clarice Ballou, May 20, 1916; *c.* Janet Helen. B.S., Cornell Univ., 1913. Alpha Zeta.

Brown, Frederick Walworth, asst. in chg. fert. resources, Bur. Soils, U. S. Dept. Agr., Washington, D. C.

Auth.: Dan McLean's Adventures, 1910. *b.* Ann Arbor, Mich., Dec. 31, 1875; *s.* Frederick T. and Annie E. (Bates) B.; reared in town; *m.* Virginia Hynson, Oct. 12, 1905; *c.* Frederick W., Virginia Hynson. A.B., Princeton Univ., 1897; M.A., 1898.

Brown, Gordon Gordon, hort., Hood River Exp. Sta., Hood River, Ore.

Provincial fruit insp., B. C., 1913–6; present position, 1916—. *b.* Fairview, Ore., May 28, 1887; *s.* Oscar and Harriett (Dixon) B.; reared on farm; *m.* Margaret E. Littlehales, Jan. 1, 1914; *c.* Virginia

Helen. A.B., Pacific Univ., 1910; B.S., Ore. Agr. Coll., 1912.

Brown, Harry Bates, plant-breeder, Miss. Exp. Sta., Agricultural College, Miss.
Instr. bot., Ind. Univ., 1907; instr. bot., Cornell Univ., 1908–11; prof. bot., Miss. A. & M. Coll., 1911–5; present position, 1915—. *b.* Carroll Co., Ind., June 9, 1876; *s.* John H. and Sue (Bates) B.; reared on farm; *m.* Ina Barker, Sept., 1911; *c.* Harry B. Jr., Sue Eleanor. A.B., Ind. Univ., 1906; A.M., 1907; Ph.D., Cornell Univ., 1910. Sigma Xi.

Brown, Harry Rufus, superv. of cow testing, Truro, N. S.
b. Wallace Bay, N. S., Jan. 12, 1889; *s.* Peter G. and Annie Stewart (MacKenzie) B.; reared on farm.

Brown, Percy Edgar, prof. soil bact. and chief soil chem. and bact. Exp. Sta., Ia. State Coll., Ames, Ia.
Asst. soil chem., Rutgers Coll., 1906–10; present position, 1910—. *Auth.:* (with J. G. Lipman) Laboratory Manual in Soil Bacteriology, 1911. *b.* Woodbridge, N. J., Oct. 9, 1885; *s.* Jonathan Edgar and Jeannette E. (Walker) B.; reared on farm. B.S., Rutgers Coll., 1906; A.M., 1909; Ph.D., 1912. Phi Beta Kappa; Phi Kappa Phi; Phi Lambda Upsilon; Alpha Zeta; Delta Upsilon; Gamma Sigma Delta.

Brown, Robert William, sec. Am. Galloway Breeders' Assoc., Carrollton, Mo.
Supt. cattle dept., Mo. State Fair; pres. Carroll Co. Farm Bur.; sec. Mo. Assoc. Farm Bur. Clubs. 1st Lieut., Spanish-American War. *b.* Myrtleford, Australia, Oct. 17, 1875 (naturalized as minor); *s.* Wm. Mathieson and Flora (Aiton) B.; reared on farm; *m.* Mary Hudson Goodson, Oct. 19, 1910. Student Univ. Mo., 1894–6. Phi Delta Theta.

Browne, Thomas Everett, prof. voc. educ., acting state dir. voc. educ., state agt. boys' club work, N. C. A. & M. Coll., W. Raleigh, N. C.
Prof. Latin and English, Atlantic Collegiate Inst., Elizabeth City, 1902–4; co. supt. public instruction, Hertford co., 1905–11; co. farm dem. agt., 1908–11; distr. agt. farmers' coop. dem. work, 1911–3; prof. ext. and state agt. boys' club work, N. C. A.&M. Coll., 1913–7; present position, 1917—. General farming, 1904–11. *b.* Murfreesboro, N. C., Mar. 17, 1881; *s.* W. T. and Ida May (Maget) B.; reared on farm; *m.* Martha Broadus Farrar, Jan. 10, 1906; *c.* Thomas Everett Jr., Micou Farrar, Edward Broadus, Joseph Majette. B.A., Wake Forest Coll.

Brownell, Roscoe David, co. agrl. agt., Mangum, Okla.
b. W. Cambridge, N. Y., June 25, 1877; *s.* W. S. and Jane M. (Kenyon) B.; reared on farm; *m.* Mabel Gurley, June 12, 1916. A.B., Colgate Univ., 1902. Phi Beta Kappa; Delta Upsilon.

Brownfield, William Watson, distr. agrl. agt., Ohio State Univ., Columbus, O.
Agt. Washington Co., O.; present position, 1918—. *b.* Uniontown, Pa., June 11, 1888; *s.* Isaac H. and Mary A. (McLean) B.; reared on farm; *m.* Faye W. Shipman, Aug. 26, 1912; *c.* Lyman H., Chas. Wm., Barbara, Winnifred. B.S.A., Ohio State Univ., 1912. Delta Theta Sigma.

Broyles, William Anderson, assoc. prof. agrl. educ., Tex. A. & M. Coll., College Station, Tex.
Princ. high-sch., Gaston, Ind., 1903–7; head dept. biol., high-sch., Elwood, 1908–10; head dept. agr. and biol., State Normal Ind. Sch., Ellendale, N. D., 1910–3; princ. Walsh Co. Agr. and Training Sch., Park River, N. D., 1913–6; present position, 1916—. *b.* Delaware Co., Ind., Oct. 2, 1879; *s.* Joseph A. and Eliza C. (Reeder) B.; reared on farm; *m.* Bertha Burns Lee, Sept., 1908. B.S., Tri State Coll., 1905; A.B., Ind. Univ., 1908; M.A., Univ. Wis., 1914. Phi Delta Kappa.

Brues, Charles T., asst. prof. econ. ent., Bussey Inst., Harvard Univ., Forest Hills, Mass.
Curator Milwaukee Public Museum, 1904–9; instr. econ. ent., Harvard Univ., 1909–12; asst. prof., 1912—. Fellow Am. Acad. Arts & Sci.; Ent. Soc. Am.; A. A. A. S. Ent. with expedition from Harvard Sch. Trop. Med. to Ecuador and Peru, 1913. *Auth.:* (with Melander) Key to Families of North American Insects, 1915; (with Morrison) How to Make the Garden Pay, 1916. *Ed.,* Psyche, A Journal of Entomology, 1909—

b. Wheeling, W. Va., June 20, 1879; *s.* Chas. T. and Ada (Mossie) B.; reared in city; *m.* Beirne Barrett, 1904; *c.* Austin M., Alice M. B.S., Univ. Tex., 1901; M.S., 1902.

Brundage, Augustus Jackson, state club leader, Conn. Agr. Coll., Storrs, Conn.
Asst. coll. dept., Conn. Agr. Coll., 1910–1; farm manag., 1911–2; agrl. superv. public schs., 1913–4; present position, 1914—. *b.* Danbury, Conn., Aug. 19, 1890; *s.* A. Benj. and Fanny Louise (Pierce) B.; reared on farm; *m.* Ruth Miller, June 24, 1915; *c.* Roger Pierce. Grad. Conn. Agr. Coll., 1910.

Bruner, Lawrence, prof. ent., Univ. Neb., Lincoln, Neb.
Asst., U. S. Ent. Comn., 1880; field agt., U. S. Dept. Agr., Univ. Neb., 1888; ent., Neb. Exp. Sta., 1888–90; instr. ent., Univ. Neb., 1890–5; prof., 1895—; state ent. Speciality, orthopteroid insects, locusts in particular. Traveled in S. America, Mexico, Costa Rica, Japan, China, Philippines. Represented Neb. at Panama-Pacific Expos., 1915. *b.* Catasaqua, Pa., Mar, 2, 1856; *s.* Uriah and Amelia (Probst) B.; reared on farm; *m.* Marcia Dewell, Dec. 25, 1881; *c.* Psyche E., Helen M. B.S., Univ. Neb., 1897.

Brunner, Edmund deSchweinitz, clergyman, 225 N. 10th St., Easton, Pa.
Mem. Com. on Direction of Church and Country Life Comn. and rural sec., Fed. Council of Churches; mem. Home Missions Council, Am. Sociol. Soc.; sec. County Church Comn., Moravian Church. *Auth.:* History of Moravian Missions among California Indians, 1914; Cooperation in Coopersburg, 1916; The New Country Church Building, 1917. *Ed.*, church and country life dept., The Moravian. Speciality, the country church, rural sociol. *b.* Bethlehem, Pa., Nov. 4, 1889;; *s.* Franklin H. and Nina (de Schweinitz) B.; reared in town; *m.* Mary W. Vogler, Dec. 16, 1912; *c.* Edmund de S. Jr., Wilfred Robt. B.A., Moravian Coll., 1909; B.D., 1911; M.A., 1912; Ph.D., 1914.

Brusse, William, co. agrl. agt., Franklin, Ky.
b. Sheboygan Co., Wis., May 5, 1891; *s.* Garrett Wm. and Dela (Snoyenbos) B.; reared on farm. B.S.A., Univ. Wis., 1917. Alpha Zeta.

Bryan, Ollie Clifton, co. agrl. agt., Vernon, Ala.
b. Elba, Ala., Jul. 30, 1894; *s.* M. B. and Ollie (Clifton) B.; reared on farm. B.S., Ala. Poly. Inst., 1918.

Bryant, Virgil Clay, asst. prof. agrl. ext., Univ. Calif., Berkeley, Calif.
Student asst., Kans. State Agr. Coll., 1909–10; student asst., Univ. Calif., 1910–1; instr. agr., Les Banos high-sch., Calif., 1911–3; instr. ext., Univ. Calif., 1913–5; asst. prof., 1915—. Dairy farmer, 1916—. *b.* Edwards Co., Kans., Dec. 23, 1888; *s.* G. L. and Sarah (Shank) B.; reared on farm; *m.* Isabelle Arnott, June 24, 1914; *c.* Fern Frances, Sarah Elizabeth. B.S., Kans. State Agr. Coll., 1910; M.S., Univ. Calif., 1911.

Buchanan, Robert Earle, dean ind. sci., prof. bact., bact. Exp. Sta., Ia. State Coll., Ames, Ia.
Instr. bot., Ia. State Coll., 1905–6; asst. prof. bact., 1906–7; assoc. prof., 1908–9; prof., 1909—; dean ind. sci., 1913—. Fellow A. A. A. S. Vice-pres. Soc. Am. Bact., 1916; pres., 1917. *Auth.:* Veterinary Bacteriology, 1911, 2d ed., 1916; (with Mrs. Buchanan) Household Bacteriology. Adv. ed., Journal of Bacteriology. *b.* Cedar Rapids, Ia., Mar. 27, 1883; *s.* John and Josephine (Hall) B.; reared in small town and on farm; *m.* Estelle D. Fogel, Jan. 6, 1909; *c.* Joseph Hall. B.S., Ia. State Coll., 1904; M.S., 1906; Ph.D., Univ. Chicago, 1908. Sigma Xi; Phi Kappa Phi; Phi Lambda Upsilon; Delta Theta Sigma; Delta Upsilon.

Bucher, Floyd Steinmetz, co. agrl. agt., Lancaster, Pa.
Asst. soils, Penn. State Coll., 1910; sci. asst., Bur. Soils, 1910–2; instr. soils, Penn. State Coll., 1912–3; agt. Lancaster Co., Pa., 1913—. Pres. Penn. Agrl. Ext. Reps. *b.* Reamstown, Pa., Feb. 16, 1887; *s.* Wm. H. and Alice (Steinmetz) B.; reared on farm. B.S., Penn. State Coll., 1910. Alpha Zeta; Phi Kappa Phi.

Buchholz, Arthur Bernard, co. agrl. agt., Hudson, N. Y.
b. Geneva, N. Y., Dec. 6, 1886; *s.* A. E. and O. (Hein) B.; reared on farm

and in village; *m.* Daisy M. Weeks, Apr. 30, 1914; *c.* Lewis, Jane, Priscilla. B.S., Hobart Coll., 1909; M.S.A., Cornell Univ., 1911. Phi Phi Delta.

Buckley, Samuel Sutherland, ext. an. husb., U. S. Bur. An. Ind., and Md. State Coll. Agr. cooperating, College Park, Md.

Prof. vet. sci., Md. Agr. Coll., 1897–1916; vet., Md. Exp. Sta., 1899–1916; specialist an. ind. ext., 1916—. *b.* Mt. Washington, Md., May 31, 1873; *s.* Earlum and Helen Mar (Sutherland) B.; reared in town; *m.* Clara R. Thomas; *c.* Helen M., Dorothy M. B.Sc., Md. Agr. Coll., 1893; D.V.S., Am. Vet. Coll. of Univ. of N. Y., 1896; M.Sc., Md. Agr. Coll., 1899.

Buckman, Harry Oliver, prof. soils, Cornell Univ., Ithaca, N. Y.

Asst. chem. sect., Ia. Exp. Sta., 1906–7; asst. agron., Mont. Exp. Sta., 1907–9; asst. prof. soils, Cornell Univ., 1912–7; prof., 1917—. *Auth.:* (with Lyon and Fippin) Soils — Their Properties and Management, 1915. *b.* W. Liberty, Ia., July 4, 1883; *s.* Chas. E. and Louisa (Walter) B.; reared on farm; *m.* Rita Shannon, Dec., 1912. B.S.A., Ia. State Coll., 1906; M.S.A., 1908; Ph.D., Cornell Univ., 1912. Sigma Xi; Alpha Zeta; Gamma Alpha; Delta Upsilon.

Buechner, Charles Arthur, co. agrl. agt., Knox, Ind.

Gardener and farm manag., 4 yrs. *b.* S. Bend, Ind., Aug. 2, 1893; *s.* Micheal A. and Ida (Marie) B.; reared in town. B.S.A., Purdue Univ., 1917. Alpha Gamma Rho.

Buffum, Burt C., pres. and general manag., The Emmer Products Co., Denver, Colo.

Asst. meteorology and irrig. engin., Colo. Agr. Coll., 1890; prof. agr. and hort., Univ. Wyo., 1891–1900; vice-dir. Wyo. Exp. Sta., 1896–1900; prof. agr., Colo. Agr. Coll., 1900–2; prof. agr., Univ. Wyo. and dir. Exp. Sta., 1902–7; general manag., Wyo. Plant and Seed Breeding Co., 1907–13; plant-breeder, Buffum Pure Seed Co., 1913–4; pres. Emmers Products Co., 1914—; chg. plant-breeding, Wyo. State Ind. Inst., Worland, Wyo., 1915. Fellow A. A. A. S. Comnr. Lewis & Clark Expos., Portland, Ore., 1905. *Auth.:* Arid Agriculture, 1909; Plant Breeding, 1912; Sixty Lessons in Agriculture (with Deaver), 1913. *b.* South Bend, Ind., Apr. 7, 1868; *s.* Geo. W. and Harriet (Butts) B.; *m.* Luda Maude Southworth, June 24, 1890. B.S., Colo. Agr. Coll., 1890; M.S., 1893.

Bull, Alvah Milton, asst. prof. agrl. engin., supt. bldgs. and grounds, Univ. Minn., University Farm, St. Paul, Minn.

Speciality, farm bldgs. and construction. *b.* Hennepin Co., Minn., Apr. 23, 1871; *s.* James A. and Amie L. (Cooper) B.; reared on farm; *m.* Lydia Mann Blake, 1901; *c.* Alvah Stanley, John Milton. B.S., Univ. Minn.

Bull, Coates Preston, prof. agron., Univ. Minn., University Farm, St. Paul, Minn.

Asst. prof. farm crops, Univ. Ill., 1901–2; asst. and instr. farm crops, Univ. Minn., 1902–6; asst. prof., 1906–11; assoc. prof., 1911–6; prof. agron., 1916—. Sec. Minn. Crop Improvement Assoc.; vice-pres. Am. Soc. Agron.; dir. Nat. Corn Assoc. *b.* Edina Mills, Minn., Oct. 11, 1872; *s.* James A. and Annie Lea (Cooper) B.; reared on farm; *m.* Letta Mae Tryon, Oct. 12, 1904; *c.* Coates P. Jr., Henry Enoch, James Tryon. B.S.A., Univ. Minn., 1901. Sigma Xi; Alpha Zeta.

Bullard, Cora Wellhouse, rural leader, Tongahoxie, Kans.

Mem. Kans. School Book Comn.; vice-pres. Kans. State Council of Defense; mem. exec. com., Kans. Live-Stock Assoc.; life hon. mem., Kans. Bd. Agr. *b.* Leavenworth, Kans., Jan. 25, 1861; *d.* Frederick and Susan (Housley) Wellhouse; reared on farm; *m.* Henry Shelby Bullard, June 26, 1889.

Bullock, Dillman Samuel, asst. prof. ext. an. husb., Univ. Wis., Madison, Wis.

Teach. agr., Mision Agricola e Industrial of Temuco, Chile, 1902–12; princ. Marinette Co. Agr. Sch., Marinette, Wis., 1912–6; ext. rep. in an. husb., Univ. Wis., fieldman for Wis. Live-stock Breeders' Assoc., 1916—. Organized cooperative cattle buying and buying of seed grains and potatoes for Marinette Co. farmers. Traveled in Europe and S. America. Collected birds and mammals for British Museum and Am. Museum Nat. History. *b.* Elba, Mich., Nov. 25, 1878; *s.* Carlos A. and Nellie E. (Litle) B.; reared on farm; *m.* Katrina J. Kelly,

Mar. 1, 1906. B.S., Mich. Agr. Coll., 1902; M.Agr., 1911.

Bunch, Mamie, in chg. home econ. ext., Univ. Ill., Urbana, Ill.

Co. supt. schs., Douglas Co., Ill., 1894–8; ext. lect., Univ. Ill., 1912–3; in chg. home econ. ext., 1914—; state leader in home econ. dem. for Ill. Sec. ext. div., Am. Home Econ. Assoc. Studied home life in S. Africa and Australia, 1909–12. *b.* Ford Co., Ill., Jan. 10, 1871; *d.* Thaddeus Morehouse and Elizabeth (Edmiston) B.; reared on farm and in town. A.B., Univ. Ill.

Burbank, Luther, naturalist, originator new grains, fruits, flowers, etc., Santa Rosa, Calif.

Special lect. on evolution, Leland Stanford Univ., 1900–5. Originator of numerous new forms of plant life; has under way 5000 experiments on some 6000 species. Fellow A. A. A. S.; hon. mem. Swedish Agrl. Soc.; Italian Agrl. Soc.. *Auth.:* Training of the Human Plant, 1904; The Methods and Discoveries of Luther Burbank, 1914. *b.* Lancaster, Mass., Mar. 7, 1849; *s.* Samuel Walton and Olive (Ross) B.; reared on farm; *m.* Elizabeth Waters, Dec. 21, 1917. Sc.D., Tufts Coll., 1905.

Burckhalter, George Clayborn, co. agrl. agt., Sterling, Colo.

b. Lewis, Ia., May 28, 1888; *s.* John and Sabinah (Roberts) B.; reared on farm. B.S.A., Colo. Agr. Coll., 1916. Sigma Delta.

Burdette, John Purdum, co. agrl. agt., La Platta, Md.

Princ. public schs., Georgetown, Del., 1897–8; vice-princ. Wilmington Conference Acad., Dover, 1898–9; princ. public schs., Smyrna, 1900–9; princ. Anne Arundel Acad., Millersville, Md., 1909–17; agt. Charles Co., Md., 1917—. Pres. Md. Crops Improvement Assoc. *b.* Browningsville, Md., Oct. 20, 1868; *s.* Robt. E. and Eveline W. (Purdom) B.; reared on farm; *m.* Emma Jones, Dec. 29, 1898; *c.* Dorothy May, John Warren, Eunice Eveline, Wm. Morgan, Anne Arundel. A.B., Dickinson Coll., 1897. Phi Kappa Sigma.

Burdick, Raymond Terry, asst. prof. agron., Univ. Vt., Burlington, Vt.

Instr. agron., Univ. Vt., 1912–4; asst. prof., 1914—. *b.* Lima, N. Y., May 5, 1889; *s.* John Alfred and Emma (Terry) B.; reared on farm; *m.* Lina Odell, Aug. 14, 1913. B.S., Cornell Univ., 1912.

Burgess, Albert Franklin, asst. ent. in chg. moth work, U. S. Bur. Ent., Melrose Highlands, Mass.

Asst. ent., Mass. Bd. Agr., 1895–9; asst. ent., Univ. Ill., 1899–1900; asst. insp. nurseries and orchards, Ohio Exp. Sta., 1900–2; chief insp., Ohio State Bd. Agr., 1902–7; present position, 1907—. Sec. Am. Assoc. Econ. Ent. Fellow A. A. A. S.; Ent. Soc. Am. Business manag., Journal of Economic Entomology. *b.* Rockland, Mass., Oct. 2, 1873; *s.* Emory and Mary A. (Lewis) B.; reared in small town; *m.* Mary E. Dwight, June 20, 1904; *c.* Emory D., Albert F. Jr. B.S., Mass. Agr. Coll., 1895; M.S., 1897. Phi Sigma Kappa.

Burgess, Charles H., prof. poultry husb., Mich. Agr. Coll., E. Lansing, Mich.

Public sch. teach. Sec. Mich. Poultry Assoc. Farmer. *b.* Flint, Mich., Jan. 12, 1865; *s.* Simeon and Chloe B.; reared on farm; *m.* Miriam Butler, June 29, 1897. Grad. Mich. State Normal Coll.

Burgess, Junius M., dir. Canebrake Exp. Sta., Uniontown, Ala.

Farmer till 1905; assoc. prof. dairying, Clemson Agr. Coll., 1905–18; present position, 1918—. *b.* Summerton, S. C., Apr. 24, 1881; *s.* Thos. L. and Francis A. (Mayes) B.; reared in a small town; *m.* Julia H. Mitchell, Jul. 6, 1911; *c.* Anne Louise. B.S., Clemson Agr. Coll., 1902.

Burk, Lloyd Byron, invest. in marketing live-stock and meats, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Instr. an. husb., Univ. Mo., 1912–3; asst. prof., 1913–4; assoc. prof., 1914–5; in chg. swine invest., Tex. A. & M. Coll., 1915–8; present position, 1918—. *b.* Butler, Mo., June 30, 1883; *s.* Monroe and Nannie (Belle) B.; reared on farm; *m.* Ximenia Y. Z. Harper, June 12, 1911; *c.* Phila Belle, Lloyd Byron Jr. B.S.A., Univ. Mo., 1911.

Burkett, Charles William, ed. American Agriculturist, 315 Fourth Ave., New York City.

Asst. agr., Ohio State Univ., 1895–8;

prof. agr. and agrst. Exp. Sta., N. H. A. &M. Coll., 1898–1901; N. C. A.&M. Coll., 1901–6; dir. Kans. Exp. Sta., 1905–8; ed. American Agriculturist and book ed. Orange Judd Co., 1908—. Del. by Kans. to conduct cereal invest. in Turkey and Russia, 1907. Ed. and founder, The Agricultural Student. Mem. Council on Agrl. Educ., N. Y. Dept. Educ. *Auth.:* A History of Ohio Agriculture, 1899; Agriculture for Beginners, 1903; Cotton, 1906; Soils, 1907; Farm Stock, 1909; Farm Crops, 1910; Farmers' Veterinarian, 1911; First Principles of Feeding Farm Animals, 1914; Soils and Crops (joint author), 1915; Farm Animals (joint author), 1916; Between Two Lives, 1917. *b.* Thornville, O., Jan. 3, 1873; *s.* Joseph Walker and Anna (Klingler) B.; reared on farm; *m.* Laura Weisman, Dec. 27, 1900; *c.* Dorothy Louise, Chas. Wm. Jr. B.Sc., Ohio State Univ., 1895; M.Sc., 1898; Ph.D., Lima Coll., 1900. Kappa Sigma; Alpha Zeta.

Burlison, William Leonidas, assoc. prof. crop production, Univ. Ill., Urbana, Ill.

Asst. agron., Okla. Exp. Sta., 1906–8; asst. prof. agron., Okla. A.&M. Coll., 1908–10; assoc. ed. Northwest Farmstead, Orange Judd, 1910–2; assoc. crop production, Univ. Ill., 1912–5; assoc. prof., 1915—. *b.* Harrison, Ark., Sept. 3, 1882; *s.* Wm. Washington and Amanda Ercilla (Pettit) B.; reared on farm; *m.* Flossy Belle Lewis, May 19, 1909; *c.* Lewis Eugene, Ruth Helen. B.S., Okla. A.&M. Coll., 1905; M.S., Univ. Ill., 1908; Ph.D., 1915. Alpha Zeta; Pi Delta Epsilon.

Burmeister, Charles Alexander, asst. in marketing live-stock and meats, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Asst. manag. ranch, McMullen Co., Tex., 1908–10; instr. agr. and sci., high-sch., Brownwood, Tex., 1910–1; asst. dry land agr., Bur. Plant Ind., 1911–5; asst. in marketing by parcel post, Bur. Markets, 1915–6; present position, 1916—. *b.* Tilden, Tex., Nov. 29, 1887; *s.* Frank H. and Sallie J. (Russell) B.; reared on farm; *m.* Josephine M. Tomlin, June 16, 1915. B. S., Tex. A.&M. Coll., 1908.

Burnett, Edgar Albert, dean Coll. Agr., dir. Exp. Sta., Univ. Neb., Lincoln, Neb.

Instr., Mich. Agr. Coll., 1889–93; prof. agr., S. D. Agr. Coll., 1896–9; prof. an. husb., Univ. Neb., 1899–1915. Chm. Station Sect., Assoc. Am. Agrl. Colls. and Exp. Stas. Former pres., Am. Assoc. Farmers' Inst. Workers. *b.* Livingston Co., Mich., Oct. 17, 1865; *s.* Ellsworth S. and Mary Eliza (Crane) B.; reared on farm; *m.* Nellie E. Folsom, 1899; *c.* Knox Folsom. B.S., Mich. Agr. Coll., 1887; D.Sc., 1917.

Burnett, Lyman Crane, chief in cereal breeding, Ia. Exp. Sta., Ames, Ia.

Asst., Ia. Exp. Sta., 1906–15; chief cereal breeding, 1916—. *b.* Bancroft, Mich., Mar. 15, 1881; *s.* Ellsworth Solon and Eliza (Crane) B.; reared on farm; *m.* Pearl Hensel, Jan. 14, 1908; *c.* Kenneth Hensel, Dorothy. B.S., Univ. Neb., 1903; M.S.A., Ia. State Coll., 1906. Phi Kappa Phi; Alpha Zeta.

Burnham, Ernest, dir. dept. rural educ., W. Mich. Normal Sch., Kalamazoo, Mich.

Co. comnr. schs., Calhoun Co., Mich., 1899–1904; present position, 1904—. Fellow A. A. A. S. *Auth.:* Rural School Efficiency in Kalamazoo County, 1909; Two Types of Rural Schools, 1912; Rural Teacher Preparation in State Normal Schools, 1918. *Ed.,* Albion Recorder 1896–9. *b.* Climax, Mich., Oct. 15, 1869; *s.* Orsemus and Margaret (Smith) B.; reared on farm; *m.* Grace E. Armstrong, June 22, 1899; Ph.B., Albion Coll., 1896; A.M., 1902; Ph.D., Columbia Univ., 1912. Sigma Chi; Phi Delta Kappa.

Burns, William Hunter, asst. sugar plant invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Chief agrst., The Continental Sugar Co., 1905–8; manag., 1908–10; consulting agrst., Holly Sugar Co., 1910–2; distr. superv., Better Farming Assoc., N. D., 1912–4; present position, 1914—. Farmer, 1894–1904. *b.* Erie, Mich., July 27, 1865; *s.* Cornelius and Mary (Neal) B.; reared on farm; *m.* Augusta Lewis Taylor, 1890; *c.* Margaret, Katherine, Wm. H. Jr., Elizabeth, Rosamond. B.S., Mich. Agr. Coll., 1889.

Burns, Woodson Seeley, co. agrl. agt., Warrenton, Ga.

Princ. high-sch., Boonville, Ky., 1911–2; teach. hist., high-sch., Rosebud, Tex.,

1912–3; manag. Regan Brock Farm, Ky., 1913–6; princ. Walker graded sch., Golden Valley, N. D., 1916–7; princ. high-sch., White Plains, Ga., Jan.–Feb., 1918; present position, Mar. 1918—. *b.* Oneida, Ky., Jul. 14, 1886; *s.* Daniel B. and Katherine (Crooke) B.; reared on farm; *m.* Bess Yadon, Mar. 2, 1918. A.B., Georgetown Coll., Ky., 1911.

Burr, Charles G., state boys' club agt., Va. Poly. Inst., Blacksburg, Va.
Princ. high-sch., Cardwell, Va., 1908–10; Emporia, 1910–3; instr. agrl. educ., Farmville State Normal and agt. Prince Edward Co., 1913–6; present position, 1917—. Vice-pres. Va. State Teach. Assoc., 1909–10. *b.* Goodland, Ind., Jul. 31, 1884; *s.* E. R. and Sarah Jaue (Vorheis) B.; reared on farm; *m.* Mary Ellen Powell, June 5, 1913; *c.* Chas. G., Sue Maclin. B.A., Va. Christian Coll., 1908.

Burr, Walter, dir. rural serv. dept., Kans. State Agr. Coll., Manhattan, Kans.
Asst. dir. rural serv. dept., Kans. State Agr. Coll., 1914–5; dir., 1915—; asst. state dem. agt. leader, 1917—. *b.* Plymouth, Ill., Aug. 3, 1877; *s.* Horace M. and Sarah (Shuck) B.; reared in town; *m.* Buena Hall, Jan. 1, 1905; *c.* John, Frank, Mary, Martha. A.B., Knox Coll.

Burr, William Wesley, prof. agron. and head dept., Univ. Neb., Lincoln, Neb.
Dry land work, U. S. Dept. Agr., 1906–16; present position, 1916—. Fellow A. A. A. S. *b.* Goodland, Ind., Mar. 26, 1880; *s.* Elliot R. and Sarah Jane (Vorheis) B.; reared on farm. B.S.A., Univ. Neb., 1906. Sigma Xi; Alpha Zeta.

Burritt, Maurice Chase, ext. prof., vice dir. ext. and dir. farm bureaus of N. Y. State, Cornell Univ., Ithaca, N. Y.
Sci. asst., Off. Farm Manag., U. S. Dept. Agr., 1908–11; ed. N. Y. Tribune Farmer, 1911–3; present position, 1914—. Farming, 1902–5. *Auth.:* Apple Growing, 1912. *b.* Hilton, N. Y., Feb. 4, 1883; *s.* Stephen D. and Anna (Chase) B.; reared on farm; *m.* Estella May Buell, Aug. 9, 1911; *c.* Helen Rosamond, Stephen Gilbert. B.S.A., Cornell Univ., 1908; M.S.A., 1910. Sigma Phi Sigma.

Burrows, Mark, prof. rural educ., Kirksville Normal Sch., Kirksville, Mo.
Teach. rural schs., 5 yrs.; teach. village and city schs., 18 yrs.; teach. normal schs., 10 yrs. Collaborator for Farm Arithmetic and Farm Accounts, 1917. *Ed.,* Rural School Messenger. *b.* Andrew Co., Mo., Nov. 16, 1868; *s.* Edward D. and Susannah Adams (Clendenin) B.; reared on farm; *m.* Dollie Adams, Aug. 28, 1895; *c.* Iphigenia, Gwynne, Winifred. B.S., Stanberry Normal Sch., 1892; A.B., Kirksville Normal Sch., 1912.

Burson, William Mills, prof. vet. med., Univ. Ga., Athens, Ga.
Instr., Cincinnati Vet. Coll., 1907–10; present position, 1910—. Pres. Ga. State Vet. Assoc., 1913; resident sec. for Ga., Am. Vet. Med. Assoc., 1913—. Leader vet. ext. work in Ga. 1st Lieut., 8th Ohio Vol. Inf., Spanish War. *b.* Augusta, O., May 24, 1874; *s.* Wm. and Susan C. (Mills) B.; reared on farm; *m.* Mary A. Sieber, June 15, 1897; *c.* Susan M., Mildred M. D.V.M., Cincinnati Vet. Coll., 1907.

Burt, George James, sci. asst., Off. Corn Invest., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.
Commercial rose growing, Erie, Pa., 1912–3. *b.* Elmira, N. Y., 1887; *s.* Geo. and Annie H. (Veazie) B.; reared in town and on farm; *m.* Sarah Haugh, Jan. 15, 1917. B.S.A., Cornell Univ., 1911.

Burtis, Orville Brown, co. agrl. agt., Clay Center, Kans.
b. Fredonia, Kans., June 13, 1892; *s.* Walter John and Winifred (Brown) B.; reared on farm; *m.* Gertrude Elizabeth Harling, Sept. 28, 1917. B.S.A., Kans. State Agr. Coll., 1916.

Burton, Myron Garfield, dir. home-study serv., Kans. State Agr. Coll., Manhattan, Kans.
Supt. White River high-sch., 1902–8; supt. Plano, Ill., city sch., 1908–11; ed. in chief, Nat. Manual Training Corporation, 1911–5; dir. ext., Muncie Normal Coll., 1913–5; present position, 1915—. Dir. poster campaign, U. S. Food Comn. *Auth.:* Shop Projects based on Community Problems, 1915; School Sewing Based on Home Problems, 1916. *b.* Hamilton Co., Ind., Sept. 13, 1880; *s.* A. M. and Martha (Ramsey) B.; reared in small village; *m.* Frieda Sherrick, 1901; *c.* Erme June, Basil, Rowena, Victor.

A.B., Ind. Univ., 1915; M.S., Kans. State Agr. Coll, 1918.

Bush, George Wendell, co. agrl. agt., Utica, N. Y.

General farmer, 1906–12; manag. Arden Farms Dairy Co., 1906–12; agt. Oneida Co. N. Y., 1912–5; state leader co. agts., Ohio State Univ., 1915–6; agt. Oneida Co., 1918—. *Ed.*, Dairymen's League News, 1917–8. *b.* Nanticoke, N. Y., Nov. 17, 1880; *s.* Marcene and Mary (Hoard) B.; reared on farm; *m.* Meta Elizabeth Smith, Aug. 23, 1911; *c.* David Hoard. B.S.A., Cornell Univ., 1905. Alpha Zeta.

Bushnell, Leland David, prof. bact., Kans. State Agr. Coll., Manhattan, Kans.

Asst. bact., Mich. Agr. Coll., 1905–7; dairy bact., Dairy Div., Bur. An. Ind., U. S. Dept. Agr., 1907–8; asst. bact., Kans. State Agr. Coll., 1908–9; instr., 1909–10; asst. prof., 1910–2; prof., 1912—. *b.* Bronson, Mich., Oct. 19, 1880; *s.* Wm. B. and S. Maria (Taggart) B.; reared on farm; *m.* Florence Warner. B.S., Mich. Agr. Coll., 1905; M.S., Univ. Kans., 1915. Alpha Zeta; Phi Kappa Phi; Sigma Gamma Delta.

Butler, Bion H., writer and farmer, Southern Pines, N. C.

Manag. Bradford, Pa., Era, 3 yrs.; editorial writer and traveling rep., Pittsburg Times, 10 yrs.; special writer, Raleigh, N. C., News and Observer. Investigated Armenian massacres in Turkey and oil fields of Russian Caspian country, 1896, as rep. Pittsburg Times. *Auth.:* The Church on Quintuple Mountain, 1912. *b.* Brookville, Pa., June 28, 1857; *s.* Cyrus and Elizabeth (Huhn) B.; reared in country and city; *m.* Anna E. Schwem, June 8, 1892; *c.* Howard N., Helen K., Cyrus O.

Butler, Burridge Davenal, pub. Prairie Farmer, Waverly Rd., Highland Park, Ill.

Trustee Blackburn Coll. Fed. state dir., U. S. Boys' Working Reserve. Pres. Minneapolis Daily News, 1903–9; vice-pres. Omaha Daily News, 1899–1909; pres. Agrl. Publishers' Assoc., 1914–5. Traveled in Europe. Farmer, Wheaton, Ill. *b.* Louisville, Ky., Feb. 5, 1868; *s.* Thos. D. and Marie (Radcliffe) B.; reared in city; *m.* Winnie Whitfield, Dec. 22, 1890; 2d, Ina Hamilton Busey, Aug. 30, 1906.

Butler, Tait, agrl. ed., Memphis, Tenn.

Prof. vet. med. and physiology, Miss. A. & M. Coll., 1891–6; prof. vet. sci. and bact. and state vet., Kans. State Agr. Coll., 1900–1; prof. vet. sci. and state vet., N. C. A. & M. Coll., 1901–8; dir. N. C. farmers' insts., 1903–8. Pres. Am. Vet. Med. Assoc., 1900–1; pres. Assoc. Am. Farmers' Inst. Workers. *Joint auth.:* Stevens and Butler, Practical Arithmetic. *Ed.*, Southern Farm Gazette, 1895–8, 1909–10; central ed., Progressive Farmer, 1910—. *b.* Hastings Co., Ont., Jul. 24, 1862 (naturalized 1898); *s.* James W. and Arvilla (Sine) B.; reared on farm; *m.* Dell Billington Bell, Aug. 8, 1893; *c.* Eugene, Seta. V.S., Ont. Vet. Coll.

Butterfield, Kenyon Leech, pres. Mass. Agr. Coll. and head div. rural social sci., Amherst, Mass.

Supt. Mich. farmers' inst., 1895–9; field agt., Mich. Agr. Coll., 1896–9; instr. rural sociol., Univ. Mich., 1902–3; pres. R. I. State Coll., 1903–6; present position, 1906—. Mem. Roosevelt Country Life Comn.; U. S. Comn. on Rural Credit; Mass. Agrl. Development Com.; Mass. Bd. Agr.; Mass. Homestead Comn. Del. First White House Conference of Governors. Pres. Mass. Federation Rural Progress; pres. Assoc. Am. Agrl. Colls. and Exp. Stas., 1917. *Auth.:* Chapters in Rural Progress, 1908; The Country Church and the Rural Problem, 1910. *Ed.*, Mich. Grange Visitos, 1892–6. *b.* Lapeer, Mich., June 11, 1868; *s.* I. H. and Olive F. (Davison) B.; reared on farm; *m.* Harriet E. Millard, Nov. 28, 1895; *c.* Howard Millard, Victor Lloyd. B.S., Mich. Agr. Coll., 1891; A.M., Univ. Mich., 1902; LL.D., Amherst Coll., 1910.

Button, Harry Freeman, head dept. crops and soils, N. Y. State Sch. Agr., Farmingdale, N. Y.

Teach. agr., Waterford Acad., Pa., 1907–8; dir. 8th Distr. Agrl. High-Sch., Manassas, Va., 1908–13; prof. agr., Vincennes Univ., Ind., 1913–5; present position, 1915—; ext. lect., Brooklyn Acad. Arts and Sci., 1917–8. *b.* Canastota, N. Y., Aug. 17, 1879; *s.* Romaine D. and Emma A. (Freeman) B.; reared on farm; *m.* Bessie Markham McCartney, May 21, 1904; *c.* Gertrude, Dorothy, Burr, Romaine. B.S.A., Cornell Univ., 1906.

Byars, Luther Parris, plant path., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Ext. path., S. C. Exp. Sta., 1910–1; asst. bot., Univ. Wis., 1911–3; present position, 1914—. Fellow A. A. A. S. *b.* Forest City, N. C., Sept. 25, 1887; *s.* Edward Harrison and Nannie (Parris) B.; reared in town and country. B.S., Clemson Agr. Coll., 1909; M.S., Univ. Wis., 1913; Ph.D., 1914. Sigma Xi.

C

Cady, LeRoy, assoc. prof. hort., Univ. Minn., University Farm, St. Paul, Minn.

Instr. hort., Univ. Minn., 1906–10; asst. prof., 1910–1; assoc. prof., 1911—. Mem. exec. bd., Minn. State Hort. Soc. and Minn. State Florists' Assoc. Florist and gardener at state public sch., Owatonna, 1900–3; chg. greenhouse and campus, Dept. Agr., Univ. Minn., 1903—. *b.* Buffalo, Minn., Jan. 9, 1879; *s.* Geo. L. and Agnes P. (Mann) C.; reared on farm and in small town; *m.* Fannie M. Davies, June 3, 1908. B.S.A., Univ. Minn., 1907. Alpha Zeta.

Caine, George B., assoc. prof. dairying in chg. dept., Utah Agr. Coll., Logan, Utah.

Sec.-treas. State Dairymen's Assoc. *b.* Logan, Utah, Sept. 16, 1889; *s.* John T. Jr. and Katinka (Ballif) C.; reared on farm and in small city; *m.* Marie Enlis; *c.* one. B.S.A., Utah Agr. Coll., 1912; M.A., Univ. Mo., 1914. Alpha Zeta; Phi Kappa Iota; Gamma Sigma Delta.

Caine, John Thomas III, prof. an. husb., dir. ext. div., Utah Agr. Coll., Logan, Utah.

Asst. prof. an. husb., Utah Agr. Coll., 1906–8; prof., 1908—. Mem. State Bd. Horse Comnrs., 1909–12; dir. live-stock, Utah Expos. Comn., Panama-Pacific; vice-pres. Utah Live-stock Breeders' Assoc. Asst. dir. institute work, Utah, 1913—. Spent 4 months in live-stock study in Europe. *b.* Logan, Utah, June 4, 1882; *s.* John T. Jr. and Katinka (Ballif) C.; reared in town and on farm; *m.* Jean Crookston, Jul. 10, 1912; *c.* Margaret Jean, John Thos. B.S., Utah Agr. Coll., 1903; M.S.A., Ia. State Coll., 1905.

Caldwell, Joseph Stuart, in chg. fruit and veg. utilization lab., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Prof. biol., Peabody Coll., Nashville, Tenn., 1904–11; research asst., Desert Lab., Tucson, Ariz., June–Nov., 1911; prof. bot. and plant physiologist Exp. Sta., Ala. Poly. Inst., 1912–6; plant physiologist, Wash. Exp. Sta., 1916–7; present position, 1917—. *Auth.:* (with J. W. Ritchie) Primer of Hygiene, 1908. *b.* Knoxville, Tenn., Oct. 31, 1878; *s.* Andrew and Lemira J. (Crawford) C.; reared on farm; *m.* Cora Ethel McCulloch, Sept. 2, 1905; *c.* Stuart Andrew. A.B., Maryville Coll., 1902; A.M., Univ. Chicago, 1904; Ph.D., 1914. Sigma Xi; Phi Kappa Phi.

Caldwell, Ralph Elmer, acting chief dept. dairy husb., Purdue Univ., LaFayette, Ind.

Asst. an. husb., Ohio Exp. Sta., 1909–10; asst. dairy husb., 1910–1; assoc. milk production, Ind. Exp. Sta., 1911—; asst. milk production, Purdue Univ., 1911–4; asst. prof., 1914–6; assoc. prof., 1916–7; prof. dairying, 1917—. *b.* Garnett, Kans., Aug. 20, 1885; *s.* Jackson Nichol and Elizabeth (Kirkpatrick) C.; reared on farm; *m.* Lovina Sarah Merick, Aug. 5, 1914. B.S.A., Kans. State Agr. Coll., 1908.

Calkins, Claude Clark, co. agrl. agt., Moro, Ore.

b. Elgin, Neb., Jul. 15, 1890; *s.* Claude Stanton and Anna (Beecher) C.; reared on farm; *m.* Winnie Guyer, Nov. 27, 1913; *c.* Dwight Lisle. B.S., Ore. Agr. Coll., 1917. Alpha Zeta.

Call, Leland Everett, acting dean and prof. agron., Kans. State Agr. Coll., and acting dir. and agron., Exp. Sta., Manhattan, Kans.

Teaching fellow, Ohio State Univ., 1906–7; asst. agron., Kans. State Agr. Coll., 1907–8; asst. prof., 1908–11; assoc. prof., 1911–3; prof., 1913—. *Auth.:* (with Schafer) A Laboratory Manual in Agriculture, 1913; Agriculture for the Kansas Common Schools, 1914 (with Kent). *b.* Darrowville, O., Feb. 9, 1881; *s.* Chas. A. and Olive (Prior) C.; reared on farm; *m.* Clara Willis, 1910; *c.* Marjorie. B.S.A., Ohio State Univ., 1906; M.S.A., 1912. Sigma Xi; Alpha Zeta; Gamma Sigma Delta; Phi Kappa Phi.

Callahan, Ellery E., farmer, Ferenbaugh, N. Y.

Producer of dairy products, poultry, pigs and berries, Clover Hill Farm. *b.* Lycoming Co., Pa., Nov., 1862; *s.* Oliver Perry and Matilda (Landrus) C.; reared on farm; *m.* Amelia R. Statts, Sept., 1887; *c.* Leon J., Erwin L., Laura M., Jannetta A., Anna B., Harold N., Clara L., Etta B.

[Callicote, W. R., p. 309.

Calloway, Clinton Joseph, dir. ext. dept., Tuskegee Inst., Ala.

Special asst. to Geo. W. Carver, Tuskegee Inst., 1901–3; conference agt., 1903–4; rural sch. agt., 1904–7; dir. ext. dept., 1907—. *Ed.,* The Messenger, 5 yrs. *b.* Cleveland, Tenn., Apr. 18, 1869; *s.* Geo. W. and Elizabeth (Grant) C. (col.); reared on farm and in town; *m.* Josephine S. Schooler, Mar. 12, 1901. B.A., Fisk Univ., Nashville, Tenn., 1895.

Calnan, T. X., co. agrl. agt., Wimbledon, N. D.

b. Manawa, Wis., Mar. 11, 1887; *s.* Thos. and Mary (Flanagan) C.; reared on farm; *m.* Clara Smith, Oct. 18, 1916; *c.* Mary. B.S., N. D. Agr. Coll., 1913. Alpha Zeta.

Calvert, William Cecil, co. agrl. agt., Marysville, Kans.

Instr. hort., Kans. State Agr. Coll., 1916–7. *b.* Greeley, Kans., Aug. 16, 1892; *s.* Thos. and Mary (Updyke) C.; reared on farm; *m.* Esther Peck, June 25, 1916. B.S., Kans. State Agr. Coll., 1916.

Calvin, John Willard, asst. prof. agrl. chem., Univ. Neb., Lincoln, Neb.

Asst. expert in an. nutr., U. S. Dept. Agr. and asst. an. nutr., Penn. State Coll., 1908–10; asst. chem., Kans. Exp. Sta., 1910–4; present position, 1914—. 1st Lieut., Q. M. C., U. S. Army, 1918—. *b.* Topeka, Kans., Mar. 24, 1887; *s.* John H. and Henrietta (Willard) C.; *m.* Lura A. Wharton, Dec. 31, 1910; *c.* Mary Blanche, John Henry. B.S., Kans. State Agr. Coll., 1906. Sigma Xi; Alpha Chi Sigma; Alpha Sigma Phi.

Camburn, Osman Myron, dairy specialist, Univ. Vt., Burlington, Vt.

b. Cedar Rapids, Ia., Mar. 17, 1885; *s.* Myron O. and Anna M. (Dorwart) C.; reared on farm; *m.* Ethel A. Robbins, May 1, 1916. B.S., Ia. State Coll., 1915. Gamma Sigma Delta.

Camp, William Roswell, chief State Div. Markets and Rural Coop. and state supt. Credit Unions, N. C. A.&M. Coll., W. Raleigh, N. C.

Asst. econ., Univ. Mo., 1911–2; prof. econ., Lombard Coll., Galesburg, Ill., 1912–3; prof. agrl. econ., N. C. A. & M. Coll., 1913—. Chm. Marketing Com., Southern Conference for Educ. and Industry, 1916; sec. Nat. Assoc. of Marketing Officials, 1916–7; state del. to Third Nat. Conference on Marketing and Farm Credits, 1915–6; mem. exec. council, Nat. Assoc. for Agrl. Legislation. *Ed.,* Farmers' Market Bulletins. *b.* Clarksville, O., June 18, 1873; *s.* Ransom H. and Rhoda (Hardy) C.; reared in country and small city. A.B., Stanford Univ., 1909; Ph.D., Univ. Mo., 1918.

Campbell, Clyde Burdette, co. agrl. agt., Park Rapids, Minn.

Teach. agr., high-sch., Deer River, Minn., 1913–6; farmer, Park Rapids, 1916–8; co. agt., 1918—. *b.* Park Rapids, Minn., Jul. 30, 1887; *s.* Frank J. and Minnie (Brink) C.; reared on farm; *m.* Anne Imogene Miller, Mar. 21, 1916; *c.* June, Harriett. B.S., Ia. State Coll., 1913.

Campbell, George R., agt. in dairying, U. S. Dept. Agr., Fulton, Kans.

In private dairying business, 1912–8; present position, 1918—. *b.* Mo., Aug. 17, 1891; *s.* Fred B. and Isabelle (Rigg) C.; reared on farm. B.S.A., Kans. State Agr. Coll., 1916.

Campbell, Hardy W., farm adv., Southern Pacific Ry., San Francisco, Calif.

Farm adv., Chicago, Burlington and Quincy Ry., 20 yrs. *Auth.:* Campbell's Soil Culture Manual, 1902, rev. 1907; Campbell's Progressive Agriculture, 1916. *Ed.,* Western Soil Culture, 1895–9; Campbell's Scientific Farmer, 1906–12. *b.* Montgomery Center, Vt., Jul. 21, 1850; *s.* John and Mary M. (Hopkins) C.; reared on farm; *m.* Frances Farnsworth, Oct. 10, 1873; 2d, Annetta Wilkinson, Dec. 1, 1884; 3d, Elizabeth M. Turney, Dec.12, 1902; *c.* Marian A., Willard H., Lottie M., Mattie A., Arthur W., Mary M., Faith A., Fern H.

Campbell, James Philander, dir. ext. serv., Univ. Ga., Athens, Ga.

Instr. sch. gardens, Practice Sch., Ga. State Normal, 1905–6; farm dem. and field agt., U. S. Dept. Agr., 1907–10; supt. rural sch. ext., Univ. Ga., 1910—. *Ed.*, Farmers' Union News, Agrl. Dept., 1907–10. *b.* Paulding Co., Ga., Mar. 2, 1878; *s.* Daniel F. and Sarah Elizabeth (McBrayer) C.; reared on farm; *m.* Loraine Montez Proctor, Jan. 1, 1907; *c.* Frances Elizabeth, Virginia, Proctor, Montez. B.S.A., Univ. Ga., 1915.

Campbell, James Robert, prof. rural educ., Southwestern State Normal Sch., Weatherford, Okla.

Supt. city schs., Newton, Kans., 1885–93; Fredonia, Kans., 1893–8; Guthrie, Okla., 1898–1903; pres. Southwestern State Normal, 1903–8; supt. city schs., Arapaho, Okla., 1908–15; Thomas, Okla., 1915–7; present position, 1917—. Mem. Territorial Bd. Educ., 5 yrs. Co. manag., food conservation. Studied schs. in Europe and England. *b.* Cambridge, O., Aug. 17, 1861; *s.* Robt. J. and Rachel Ann (Beatty) C.; reared in city and on farm; *m.* Ruth McMullen, Sept. 20, 1883; 2d, Mrs. Daisy W. Vestal, Aug. 21, 1899; *c.* Hattie M., Lillie B., Juanita, Walter Stanley. B.A., Antrim Coll., O., 1881; A.M., Univ. Okla., 1916; grad. work, Univ. Chicago. Kappa Delta Pi.

Campbell, John Charles, sec. Southern Highland Div., Russell Sage Foundation, Asheville, N. C.

Princ. mountain acad., Joppa, Ala., 1895–8; teach. public schs., Stevens Point, Wis., 1898–9; princ. acad., Pleasant Hill, Tenn., 1900–1; dean Piedmont Coll., Demorest, Ga., 1902–3; pres., 1903–7; present position, 1908—. Specialty, rural life in Southern Appalachians. *b.* Laporte, Ind., Sept. 14, 1867; *s.* Gavin and Anna Barbara (Kipp) C.; reared in town; *m.* Grace Hammersley Buckingham, 1895; 2d, Olive Arnold Dame, 1907. B.A., Williams Coll., 1892; B.D., Andover Theol. Sem., 1895. Delta Upsilon.

Campbell, John Joseph, rancher, Nelson, B. C.

Mem. B. C. Bd. of Hort.; mem. Royal Comn. on Agr., B. C. Pres. Willow Point Fruit Growers' Assoc. *b.* Baddeck, N. S., Aug. 9, 1859; *s.* Chas. J. and Eliza (Ingraham) C.; reared in village; *m.* Eva DeLisle Greenwood, Mar. 19, 1883; *c.* Helen, Ian, Winnifred. Student Dalhousie Coll.

Campbell, Thomas Monroe, U. S. distr. agrl. agt., Tuskegee Inst., Ala.

b. Bowman, Ga., Feb. 11, 1883; *s.* Wm. and Susan (Thornton) C. (col.); reared on farm; *m.* Anna Marie Ayers, June 1, 1911; *c.* Thos. M. Jr., Geo. Carver, Emily Virginia, Wm. Grad. Tuskegee Inst.

Campbell, William Henry, farmer, State Farm, Lincoln, Neb.

Chm. educ. com., Nat. Farmers' Union, 1916–8; mem. rural educ. com., Farmers' Nat. Congress; sec. Nat. Rural Sch. Patrons. *b.* Carter Co., Ky., Jul. 21, 1862; *s.* J. A. and Elizabeth (Offill) C.; reared on farm; *m.* Lillian Hurd, Nov. 28, 1889; *c.* May J., Ellsworth, Harry C., Glenn A., Merton, Lawrence, Alice.

[Campbell, W. J., p. 310.

Campion, Thomas Howard, dir. La Crosse Co. Sch. Agr. and Dom. Econ., Onalaska, Wis.

Country sch. teach., 1906–7; supt. graded schs., 1909–10; princ. high-sch., 1911–2; present position, 1913—. *b.* Buffalo, Wis., Jul. 9, 1887; *s.* Thos. O. and Josephine (Riley) C.; reared on farm; *m.* Hazel Madden, Aug. 19, 1914; *c.* 1 daughter. Univ. Wis., 1913. Alpha Sigma Phi.

Cance, Alexander Edmond, prof. agrl. econ., Mass. Agr. Coll., Amherst, Mass.

Prof. Greek and literature, Avalon Coll., 1897–9; princ. Ashville Ind. Sch., 1901–4; superv. practice, First Pa. State Normal Sch., 1904–5; fellow econ., Univ. Wis., 1906–8; instr. agrl. econ., Mass. Agr. Coll., 1908–10; asst. prof., 1910–2; assoc. prof., 1912–5; prof., 1915—. Mem. U. S. Comn. to study agrl. credit and cooperation in Europe; del. Nat. Conference on Marketing and Farm Credits; special agt., Mass. Agrl. Development Com.; pres. Am. Assoc. Agr. Econ., 1917. *Auth.:* Recent Immigrants in Agriculture, 1911 (2 vols. for U. S. Immigration Comn.); Farmers' Cooperative Exchange, 1914; Farmers' Cooperative Corporations, 1916; The Agricultural Industry and Rescources of the United States, 1917, 3d ed. *b.* Ettrick, Wis.; *s.* Alexander and Agnes

(Edmond) C.; reared on farm. B.A., Macalester Coll., 1896; M.A., Univ. Wis., 1906; Ph.D., 1908. Phi Kappa Phi.

Cantwell, James William, pres. Okla. A. & M. Coll., Stillwater, Okla.

Princ. schs., Magnolia, Ark., 1894–1901; supt. schs., Texarkana, Ark., 1901–2; supt. schs., Corsicana, Tex., 1902–8; supt. schs., Fort Worth, Tex., 1908–15; present position, 1915—. Pres. Tex. State Teachers' Assoc., 1907–8. *b.* Douglass, Tex., Mar. 6, 1868; *s.* John Thos. and Martha Taylor (Campbell) C.; reared on farm; *m.* Ada A. Westmoreland, May 24, 1895; *c.* J. W. Jr., Carolyn, Robt., Christine, Conan. B.A., Yale Univ., 1894; A.M., Baylor Univ.

Card, Fred Wallace, farmer, Sylvania, Pa.

Assoc. prof. hort., Univ. Neb., 1893–8; prof. hort. and agr., R. I. State Coll., 1898–1907; farmer, 1907—. *Auth.:* Bush-Fruits, 1898, rev. 1918; Farm Management, 1907. *b.* Sylvania, Pa., Feb. 17, 1863; *s.* Thos. M. and Hannah L. (Baker) C.; reared on farm; *m.* Addie May Williams, Sept. 10, 1884; 2d, Maude Irene Clements, Apr. 26, 1907; *c.* Leslie E., Wendell T., Dana G. B.S.A., Cornell Univ., 1892; M.S.A., 1893. Sigma Xi.

Card, Wetherell Henry, poultry farmer, Manchester, Conn.

Judge at poultry shows and lect. Sec. R. I. Red Club of Am. and Am. Cornish Club. *Auth.:* Laws Governing the Breeding of Standard Fowls, 1912. *b.* Copake, N. Y., Jan. 9, 1860; *s.* Wm. and Mary (Melius) C.; reared in town; *m.* Nathalie Raabe, 1886.

Cardiff, Ira D., manag., Ira D. Cardiff & Co., (food processing) Yakima, Wash.

Teach. and princ. public schs., Ill., 1897–1901; asst. bot., Columbia Univ., 1904–6; asst. prof., 1906–7; prof. bot., Univ. Utah, 1907–8; prof. bot., Washburn Coll., Topeka, Kans., 1908–12; prof. plant physiology and bact., Wash. State Coll., 1912–3; dir. Exp. Sta. and head dept. bot., Wash. State Coll., 1913–7; present position, 1917—. Dir. Washburn Summer Sch., 1909–12; prof. bot., Univ. Kans. Summer Sch., 1911–2. Fellow A. A. A. S. Pres. Utah Acad. Sci., 1908. Mem. Wash. State Bd. Agr., Served Spanish-American War. *b.* Stark Co., Ill., June 20, 1873; *s.* E. A. and Latrobe R. (Sellon) C.; reared on farm; *m.* Myrtle Sherman, Aug. 14, 1902; *c.* Edward S. B.S., Knox Coll., 1897; Ph.D., Columbia Univ., 1906; 2½ yrs. grad. work, Univ. Chicago.

Cardozo, Francis Henry, teach. agr. and dir. agrl. dept., Tuskegee Inst., Ala.

Teach. hort., Tuskegee Inst., 1901–3, 1905–7; teach. dairy ind., Ga. Ind. Coll., winter, 1902; prof. and dir. agr., Fla. State A.&M. Coll., 1907–17; asst. dir. agrl. dept., Tuskegee Inst., 1917–8; dir., 1918—. Traveled in England. *b.* Topeka, Kans., Mar. 22, 1880; *s.* Isaac N. and Elizabeth (Williamson) C. (col.); reared in town and on farm; *m.* Flora L. Garbon, June 27, 1906; *c.* Dorothy, Inez. Grad. Tuskegee Inst., 1901; student Cornell Univ., 1903–5; Oxford Univ., summer 1909.

[Carleton, M. A., p. 310.

Carlyle, Sidney George, supt. dem. farms, Dept. Agr., Edmonton, Alta.

Breeder Holstein cattle and Clydesdale horses, Dundas Co., Ont.; present position, 1913—. *b.* Chesterville, Ont., Oct. 7, 1874; *s.* Thos. and Nancy (Thom) C.; reared on farm; *m.* Bertha Reid, 1903; *c.* Helen, Wm., Robt., Jean, Donald, Archibald, Marion. Student Ont. Agr. Coll. and Univ. Wis.

Carlyle, William Levi, dean agr. and dir. Exp. Sta., Okla. A. & M. Coll., Stillwater, Okla.

Instr., Ont. Agr. Coll. 1892–3; ext. lect., Univ. Minn., 1893–6; prof. an. husb., Univ. Wis., 1896–1903; prof. agr., Colo. Agr. Coll., 1903–5; dean agr., 1905–9; dean agr., dir. Exp. Sta., Univ. Ida., 1910–5; present position, 1915—. *b.* Ont., Canada, Sept. 22, 1870 (naturalized 1904); *s.* Thomas and Nancy (Thom) C.; reared on farm; *m.* Inez M. Fairbanks, Jul. 7, 1896; *c.* Kathlene, Theodora, Helen Fairbanks. B.S.A., Univ. Toronto (Ont. Agr. Coll.), 1892; M.S., Colo. Agr. Coll., 1905. Alpha Zeta.

Carman, Armiel, co. agrl. agt., Clinton, Ky.

b. Putnam Co., Tenn., Nov. 9, 1888; *s.* Martin Alexander and Frances (Welch) C.; reared on farm; *m.* Jessie Harkliss Clark, Oct. 21, 1917. B.S.A., Univ. Ky., 1916. Alpha Zeta.

Carmichael, Wilbur Jerome, ext. an. husb., U. S. Dept. Agr., Washington, D. C.

Asst. an. husb., Univ. Ill., 1912–5;

instr., 1915–7; assoc., 1917; agt. in an. husb., U. S. Dept. Agr., Nov. 1917–Apr. 1918; ext. an. husb., Apr. 1918—. Manag. hog farm, Univ. Ill., 1912–8. 1st Lieut. in Mex. border service, 1916—. *b.* Rochelle, Ill., June 15, 1888; *s.* James and Alma Louise (Knight) C.; reared on farm; *m.* Florence Jennie Varns, Nov. 23, 1916; *c.* Ellsworth Varns. B.S., Univ. Ill., 1913; M.S., 1916. Sigma Xi; Gamma Alpha; Alpha Zeta.

Carpenter, John Wilson Jr., co. agrl. agt., Greenville, Miss.
Asst. agrl. engin., Miss. A. & M. Coll., 1914–5; ext. agrl. engin., 1915–7; agrl. agt. Washington Co., 1917—. *b.* Florence, Miss., Mar. 10, 1893; *s.* John Wilson and Mattie Bell (Utz) C.; reared in small town; *m.* Alice Margaret McBee, Oct. 20, 1915; *c.* John W. III. B.S. in C.E., Miss. A. & M. Coll., 1912; B.S.A., 1914.

Carr, Ralph Howard, asst. prof. agrl. chem., Purdue Univ., LaFayette, Ind.
Chem. Western Electric Co., 1902–4; prof. chem., Buena Vista Coll., Ia., 1905; prof. chem., Coll. of Emporia, Kans., 1908–11; present position, 1913—. *Auth.:* Plant and Animal Chemistry, 1915. *b.* Wooster, O., Aug. 28, 1878; *s.* Lucius Cranmore and Sarah (Lawhead) C.; reared on farm; *m.* Myrtle Louthan, 1906; *c.* Bruce. B.S., Wooster Coll., 1900; M.S., Univ. Wis., 1910; Ph.D., 1913. Sigma Xi; Lambda Chi Alpha.

Carr, Roswell Gilbert co. agrl. agt., Ontonagon, Mich.
Teach. agr., North Adams high-sch., Mich., 1908–10; Dillon, Mont., 1910–1; supt. Upper Peninsula Exp. Sta., Chatham, Mich., 1912–5; agt. Ontonagon Co., 1915—. Vice-pres. Mich. Assoc. Co. Agrl. Agts. Co. food administrator, Ontonagon, 1918—. *b.* Fowlerville, Mich., Jan. 31, 1886; *s.* O. E. and Maria Jane (Kirkland) C.; reared on farm; *m.* Edith Landon Bigelow, Jul. 21, 1907; *c.* Betty Aileen, Bonnie Jean, Rhoda Maria. B.S., Mich. Agr. Coll., 1908.

Carrick, Doak Bain, invest. in marketing, Bur. Markets, U. S. Dept. Agr., Washington, D. C.
Instr. high-sch., Burlington, N. C., 1910–1; High Point, N. C., 1911–2; princ. high-sch., High Point, 1912–3; asst. pom., Cornell Univ., 1915–7; present position, 1917—. *b.* Lexington, N. C., Dec. 11, 1888; *s.* Thos. and Mary (Bain) C.; reared in small town. A.B., Wake Forest Coll., N. C., 1910; Ph.D., Cornell Univ., 1917., Sigma Xi.

Carrigan, Joseph Edward, asst. co. agt. leader, Univ. Vt., Burlington, Vt.
Ext. worker, Univ. Vt., 1914–5; agt. Addison Co., Vt., 1915–7; present position, 1917—. *b.* Pittsford, Vt., Nov. 7, 1891; *s.* Joseph B. and Marcella (Lowth) C.; reared on farm. B.S., Univ. Vt., 1914. Alpha Zeta.

Carroll, Alan K., co. agrl. agt., New Cumberland, W. Va.
b. Masontown, W. Va., Apr. 11, 1890; *s.* H. D. and Elma (Herring) C.; reared on farm. B.S.A., W. Va. Univ., 1918.

Carroll, Frank Arthur, co. agrl. agt., Court House, Trenton, N. J.
Superv. Coss Co., N. H. Dairy Record Assoc., 1913–4; dairy dept., N. H. A. & M. Coll., 1914–5; field agt., Dairy Div., U. S. Dept. Agr., 1916–7; co. agt., 1917—. *b.* Blackstone, Mass., Oct. 14, 1886; *s.* Patrick and Mary (McNally) C.; reared on farm and in town. B.S., R. I. State Coll., 1913; special student Cornell Univ., 1915–6.

Carroll, Harry Benson Jr., co. agrl. agt., Bellingham, Wash.
b. Kansas City, Mo., Oct. 27, 1885; *s.* Harry Benson and Fannie (Taylor) C.; reared on farm. B.S.A., Univ. Minn., 1909. Alpha Tau Omega; Alpha Zeta.

Carroll, William Ernest, prof. an. husb., Utah Agr. Coll., an. husb. Exp. Sta., Logan, Utah.
Asst. prof. an. husb. and an. husb. Exp. Sta., Logan, Utah, 1911–2; assoc. prof. and asst. chm. Sch. Agr., 1912–3; present position, 1914—. Capt. Sanitary Corps, U. S. Army, 1918—. *b.* Orderville, Utah, Nov. 8, 1882; *s.* C. W. and Amelia (Snyder) C.; reared on farm; *m.* Lenore Ure, Sept. 1, 1915; *c.* 1 son. B.S., Utah Agr. Coll., 1909; M.S., Univ. Ill., 1911; Ph.D., Univ. Ill., 1914. Sigma Xi; Phi Lambda Upsilon.

Carsner, Eubanks, asst. path. sugar plant invests., U. S. Dept. Agr., Spreckels, Calif.
b. San Antonio, Tex., Jul. 19, 1891; *s.* Chas. Ferdinand and Lucy R. (Cal-

lender) C.; reared in town. B.A., Univ. Tex., 1912; M.S., Univ. Wis., 1914; Ph.D., 1917. Sigma Xi.

Carson, William John, manag. Ayer & McKinney, 374 Clinton Ave., Newark, N. J.

Dairy instr., Kingston Dairy Sch., 1902–4; instr., Univ. Wis., 1904–6; prof. dairy husb., Man. Agr. Coll., 1904–9; managing dir., Carson Hygienic Dairy Co., Winnipeg, 1909–14; prof. dairy husb., Rutgers Coll., 1915–7; present position, 1917—. *b.* Metcalf, Ont., Nov. 15, 1872; *s.* Wm. and Jane (Stringer) C.; reared in town and on farm; *m.* Ella J. Kennedy, Dec. 25, 1902. B.S.A., Ont. Agr. Coll., 1902.

Carter, Clarence Edgar, co. agrl. agt., Edina, Mo.

Instr. agr., high-sch., Liberty, Mo., 1915; agt. Obion Co., Tenn., 1916–7. *b.* La Plata, Mo., Feb. 20, 1889; *s.* John N. and Matilda (Carnahan) C.; reared on farm; *m.* Georgia Haley, Dec. 24, 1915; *c.* Martha Jane. B.S.A., Univ. Mo., 1915.

Cartwright, Emmett Bea, superv. voc. agr., State Orphan's Home, Corsicana, Tex.

b. Temple, Ga., Aug. 16, 1889; *s.* Wm. David and Talula Voulce (Nixon) C.; reared on farm; *m.* Era Stevenson, June 1, 1917. B.S., Tex. A. & M. Coll., 1917.

Carver, George Washington, dir. exp. sta., Tuskegee Inst., Tuskegee, Ala.

Mem. Royal Soc. of Arts, London, England. *b.* Diamond, Mo.; of African descent. B.S.A., Ia. State Coll., 1894; M.S.A., 1896.

Carver, Thomas Nixon, prof. econ., Harvard Univ., Cambridge, Mass.

Assoc. prof. and prof. econ. and sociol., Oberlin Coll., 1894–1900; assoc. prof. econ., Harvard Univ., 1900–2; prof., 1902—. Dir. Rural Organization Serv., U. S. Dept. Agr., 1913–4; adv. in agrl. econ., U. S. Dept. Agr., 1914–5. *b.* Kirkville, Ia., Mar. 25, 1865; *s.* John Henry and Margaret Jane (Bartow) C.; reared on farm; *m.* Flora Frazee Kirkendall, May 4, 1888; *c.* Helen G., Emmett K., Margaret J. A.B., Univ. S. Calif., 1891; Ph.D., Cornell Univ., 1894; LL.D., Oberlin Coll., 1905. Phi Delta Theta.

Carwile, Addison Brooks, co. agrl. agt., Union, S. C.

Asst. supt. Church Home Orphanage, York, S. C., 1916–7; agt. Union Co., 1917—. In U. S. Army, 1918—. *b.* near Abbeville, S. C., Oct. 13, 1896; *s.* Preston Brooks and Liela (Kay) C.; reared on farm. B.S., Clemson Agr. Coll., 1916.

[Case, H. C. M., p. 310.

Caswell, Oscar W., co. agrl. agt., Bradentown, Fla.

Instr. an. husb., Hampton Inst., 1906–7; farmer, Miss., 1909–15; agt. Hancock Co., Miss., 1915–Jan. 1916; agt. Suwannee Co., Fla., 1916–7; agt. Manatee Co., 1917—. *b.* Warrick Co., Ind., Oct. 9, 1881; *s.* Christopher C. and Serilda (Caldwell) C.; reared on farm; *m.* Ada May Collins, Sept. 7, 1910; *c.* Lloyd C., Roberta Maxine. B.S.A., Purdue Univ., 1905.

Cate, Claude Clifton, co. agrl. agt., Medford, Ore.

Asst. plant path., Ore. Agr. Coll., 1907–8. *b.* Decatur, Tex., May 5, 1882; *s.* Wm. B. and Mary A. (Bull) C.; reared on farm; *m.* Grayce May Rose, Jan. 6, 1909; *c.* Leland L., Wm. L., Claude C. Jr. B.S., Ore. Agr. Coll., 1904.

Cates, Junius Sidney, agrst., Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.

Present position, 1906–12, 1914—. *Ed.*-in-chief, Southern Planter, 1912–4. *b.* Graham, N. C., Aug. 10, 1877; *s.* Henry Manley and Mary Elizabeth (Bradshaw) C.; reared on farm; *m.* Theodosia Dutrow, Oct. 17, 1908; *c.* Elizabeth Greenleaf. B.Agr., N. C. A.&M. Coll., 1902; M.Agr., 1904; Ph.D., American Univ., 1916. Kappa Sigma.

Cauthen, Edward Francis, assoc. agrst. in chg. field crop exps., Ala. Exp. Sta., Auburn, Ala.

Pres. 5th Distr. Agr. Sch., Hamilton, Ala., 1896–1905; agrst., 6th Dist. Agr. Sch., Wetumpka, Ala., 1906–8; farm supt., Ala. Exp. Sta., 1908–11; assoc. agrst., 1912—. *b.* Heath Spring, S. C., Jan, 17, 1868; *s.* J. C. and Gazarine G. (Hammond) C.; reared on farm; *m.* Kate Luttrell, Aug. 6, 1901; *c.* Katie Frances, Maryline, John Luttrell. B.S., Univ. Nashville, 1895; grad. student, Univ. Nashville, 1895–6; Cornell Univ., 1905–6.

Cayer, Georges, general insp. cheese and butter factories and prof., Provincial Dairy Sch., St. Hyacinthe, Que.

b. Holyoke, Mass., Sept. 13, 1877; *s.* David and Philomine (Vautrain) C.; reared on farm and in city; *m.* Lizzie Mercurl, May 3, 1910; *c.* Lilane, Therese, Roger, Lomer, Maurice, Laurier.

Chamberlain, William Isaac, farmer, Hudson, O.

Instr. Greek and Latin, Western Reserve Coll., 1861–70; sec. agr., O., 1880–6; pres. Ia. State Coll., 1886–90. Trustee Ohio State Univ., 1891–8; mem. bd. of control, Ohio Exp. Sta., 1905–9. *Auth.:* Tile Drainage, 1892, rev. 1916; First Principles of Agriculture, 1917. *Assoc. ed.,* Ohio Farmer, 1891–1908; National Stockman and Farmer, Pittsburg, Pa., 1908—. Traveled in Europe, 1908–9, 1912. *b.* Sharon, Conn., Feb. 11, 1837; *s.* Jacob and Ann (Nutting) C.; reared on farm; *m.* Lucy J. Marshall, Aug. 16, 1863; *c.* Jennie, Herbert, Joseph, Clifton, Carroll. A.B., Western Reserve Coll., Husdon, O., 1859; A.M., 1862; LL.D., Rutgers Coll., 1881, Ohio State Univ., 1888; Rev., 1886, by Cong'l. Council, Columbus.

Champlin, Manley, asst. prof. agron., S. D. State Coll., Brookings, S. D.

Special agt., U. S. Dept. Agr., 1909; sci. asst., 1910; collaborator, 1911—; asst. prof. agron. and asst. general supt. expl. farms, S. D. State Coll., 1914—. Sec. S. D. Exp. Assoc., 1913—. Mem. Grain Grades Com., Minn., 1916. *Auth.:* Lessons in Field Management, 1917; Students' Guide for the Study of Field Crops, 1917. Farmed during summers, 1895–1908. *b.* Howard Co., Ia., Oct. 28, 1885; *s.* E. B. and Amelia L. (Janes) C.; reared in small town; *m.* Mabel E. Gooder, Mar. 28, 1911; *c.* Marion, Maurine. B.S., S. D. State Coll., 1909; M.S., 1914.

Chandler, Bernard Albert, asst. prof. for. utilization, Cornell Univ., Ithaca, N. Y.

b. Gloucester, Me., Dec. 20, 1884; *s.* Andrew C. and Cora (Bean) C.; reared on farm.

Chandler, William Henry, prof. research in pom., Cornell Univ., Ithaca, N. Y.

Asst. prof. hort., Univ. Mo., 1910–3; present position, 1913—. *b.* Butler, Mo., Jul. 31, 1878; *s.* Winfield Scott and Mary Wade (Lewis) C.; reared on farm; *m.* Nancy Caroline Steele, Sept. 6, 1905; *c.* Caroline G., Wm. L., Mary Martha, Ruth S. B.S.A., Univ. Mo., 1905; M.S.A., 1906; Ph.D., 1914. Sigma Xi; Alpha Zeta.

Chapin, Harry Griswold, co. agrl. agt., Watkins, N. Y.

Co. rep. N. Y. State Food Comn., 1 yr.; asst. co. fuel administrator. *b.* Holcomb, N. Y., May 22, 1895; *s.* Chas. and Clara (French) C.; reared on farm. Special student Cornell Univ. Phi Delta Sigma.

Chapman, Abel Hugh, co. agrl. agt., Greenville, S. C.

Asst. agr., Fla. Exp. Sta., 1906–7; prof. agr., 2d Distr. Agrl. Sch., Evergreen, Ala., 1907–8; prof. agr., Cameron State Sch. Agr., Lawton, Okla., 1908–12; asst. manag. Farm Improvement Dept., Southern Ry. Co., 1912–4; agt. Greenville Co., S. C., 1914—. Chief appriser Fed. Land Bd. of Columbia, S. C., 6 months. *b.* Newton, Miss., Sept. 15, 1880; *s.* Jno. E. and Susan (Evans) C.; reared on farm; *m.* Irene Chapman; *c.* A. H., Jr. B.S., Miss. A. & M. Coll., 1904; M.S.A., Univ. Mo., 1907.

Chapman, Frederick L., ed. and owner, Better Farming, 141 W. Ohio St., Chicago, Ill.

b. Kane Co., Ill., Apr. 21, 1864; *s.* Samuel and Margaret (Spittal) C.; reared on farm; *m.* Louise Sewall, 1891; *c.* Fred L. Jr., Edmund S., John Wilson, Louise, Margaret, Helen. B.A., Amherst Coll., 1888; M.A., 1891. Psi Upsilon.

Chase, Arthur Reuben, co. agrl. agt., The Dalles, Ore.

Rural sch. superv., Jackson Co., Ore., 2½ yrs. *b.* Colman, S. D., Mar. 7, 1888; *s.* James and Jennie (Birdsall) C.; reared on farm. B.S., Ore. Agr. Coll., 1913. Gamma Sigma Delta.

Chase, Elwood LaBarre, co. agrl. agt., Woodbury, N. J.

Farm supt., N. Y. City Farm Colony, Staten Isl., 1915–6; farm supt., N. Y. State Agr. Sch., Farmingdale, Jan.–May 1916; agt. Passaic Co., N. J., 1916–7; agt. Gloucester Co., 1917—. *b.* Walbrook, Md., Dec. 3, 1893; *s.* Geo. A. and Anna (LaBarre) C.; reared in town; *m.* Julia Mary Dowling, Jan. 29, 1916; *c.* Anna Francis. B.S., Cornell Univ., 1915.

Chase, Leon Wilson, prof. agrl. engin., Univ. Neb., Lincoln, Neb.

Farming 1 yr., Lancaster Co., Neb.; Fairbanks-Morse Co., 2 yrs. Pres. and sec. Am. Soc. Agrl. Engin. Major Ord. R. C., U. S. Army, 1918—. *Auth.:* (with Davidson) Farm Machinery and Farm Motors, 1908. *Ed.* series on agrl. engin., John Wiley & Sons. *b.* Jacksonville, Vt., Aug. 27, 1877; *s.* F. W. and Mary Anna (Murdock) C.; reared on farm; *m.* Susan Mills Barnhart, Aug. 16, 1905; *c.* Fred M., Leona, Eleanor. B.S.,M.S., Univ. Neb., 1904; M.E., 1914; A.E., Ia. State Coll., 1914. Sigma Xi; Sigma Tau; Gamma Sigma Delta.

Chase, Wilbur Darwin, co. agrl. agt., Romulus, N. Y.

b. Hilton, N. Y., Apr. 20, 1892; *s.* James D. and Eunice (Gallup) C.; reared on farm; *m.* Ida E. Anderson, June 5, 1918. B.S., Cornell Univ., 1916. Alpha Gamma Rho.

Chastain, Troy Green, co. agrl. agt., Court House, Atlanta, Ga.

Prof. agr., 9th Distr. Agr. Sch., Clarksville, Ga., 2 yrs.; agrst., Ga. Railway Co., Savannah, 4 yrs. Farm operator, 6 yrs. *b.* Cobb Co., Ga., Oct. 7, 1883; *s.* W. T. and Kate (Winn) C.; reared on farm; *m.* Lillian K. Burns, Oct. 19, 1912. B.S.A., Univ. Ga., 1909.

Cheyney, Edward Gheen, chief Div. For., Univ. Minn., University Farm, St. Paul, Minn.

Asst. for., Univ. Minn., 1905–7; asst. prof., 1907–10; dir. Coll. For., 1910–8; chief Div. For., 1918—. Mem. Minn. State For. Bd.; vice-pres. Minn. State For. Assoc. *Auth.:* (with Wentling) The Farm Woodlot, 1914; Scott Burton, Forester, 1917. *Ed.*, North Woods Magazine. *b.* Washington, D. C., Nov. 24, 1878; *s.* R. T. and Lucie Marie (Balmar) C.; reared in city; *m.* H. Frances Porter, Sept. 11, 1907; *c.* Virginia Brunet, Lucie Marie. A.B., Cornell Univ., 1900; grad. work Yale For. Sch., 1904–5. Sigma Xi; Alpha Zeta.

Chilcott, Ellery Channing, chg. dry land agr. invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

U. S. deputy surveyor, 1882–92; stock farmer, Campbell Co., S. D., 1883–92; prof. agr., S. D. Agr. Coll., 1892–7; prof. geol. and agron. and vice-dir., 1897–1905; present position, 1905—. Mem. S. D. Senate, 1892; mem. S. D. State Bd. Agr., 1901–2. Fellow A. A. A. S. *b.* E. Hamburgh, N. Y., Apr. 8, 1859; *s.* Benjamin Franklin and Philenda (Freeman) C.; *m.* Alice Bushley, Jan. 2, 1884. M.S., S. D. State Coll., 1898.

Childs, Leroy, ent. and plant path. and supt. Hood River Branch Exp. Sta., Ore. Agr. Coll., Hood River, Ore.

Research asst. ent., Ore. Agr. Coll., 1914–5; ent., Hood River Exp. Sta., 1915–6; ent., path. and supt., 1916—. *b.* Alhambra, Calif., Aug. 8, 1888; *s.* Agstus Oliver and Nettie W. (Nye) C.; reared on farm; *m.* Hazel I. Holmes, Dec. 16, 1915; *c.* Leroy Winston, Allison Oliver. A.B., Stanford Univ., 1913. Sigma Xi; Phi Delta Theta.

Chittenden, Alfred Knight, prof. for., Mich. Agr. Coll., E. Lansing, Mich.

Present position, 1914—. *b.* New Haven, Conn., Oct. 28, 1879; *s.* Russell H. and Gertrude Louise (Baldwin) C.; reared in city; *m.* Lulu Wilcox Brower, 1908. Ph.B., Yale Univ., 1900; M.F., Yale For. Sch., 1902. Sigma Xi; Xi Sigma Pi.

Chittenden, Frank Hurlbut, ent. in chg. truck crop insect invests., Bur. Ent., U. S. Dept. Agr., Washington, D. C.

Asst. ent., U. S. Dept. Agr., 1891–1907; present title, 1917—. Fellow A. A. A. S. *Auth.:* Insects Injurious to Vegetables, 1897. *Ed.*, Entomologica Americana, 1890. *b.* Cleveland, O., Nov. 3, 1858; *s.* Seth King and Harriet Malvina (Hurlbut) C.; reared in city. Licentiate, Cornell Univ., 1881; hon. Sc.D., Western Univ. Penn. (now Univ. Pittsburgh), 1904.

Chitty, Ralph Alvin, co. agrl. agt., Crawfordsville, Ind.

b. Hope, Ind., May 14, 1886; *s.* Logan T. and Margaret L. (Mehne) C.; reared on farm. B.S.A., Purdue Univ., 1910. Alpha Zeta; Alpha Gamma Rho.

Chrisman, William George, prof. vet. sci., Va. Poly. Inst., Blacksburg, Va.

State vet., N. C., 1909–13; present position, 1913—. Farm operator. *b.* Harrison, Va., Apr. 22, 1877; *s.* Wm. Joe and Virginia (Gay) C.; reared on farm;

m. Rachael Carr Eastham, Jan. 30, 1907; *c.* Wm. Geo., Clara Carr. B.S., Va. Poly. Inst.; student Ont. Vet. Coll., Toronto Univ.

Christensen, Frederick Waldemar, prof. an. nutr., N. D. Agr. Coll., Agricultural College, N. D.

Asst. expert an. nutr., Bur. An. Ind., U. S. Dept. Agr., 1904–5; asst. an. nutr., Penn. State Coll., 1905–8, 1909–10; assoc. prof. agrl. chem., N. Mex. A. & M. Coll., 1911–4; nutr. chem., 1914–6; present position, 1916—. *b.* Randolph, Kans., Jan. 22, 1879; *s.* Niels and Christine Elizabeth (Johnson) C.; reared on farm; *m.* Alma O. Johnson, Sept. 1, 1909; *c.* Chas. Frederick, Arthur Geo., Paul Edward. B.S., Kans. State Agr. Coll., 1900; M.S., Penn. State Coll., 1908; grad. student Yale Univ., 1908–9.

Christiansen, Andrew Hansen, co. agrl. agt., Eureka, Calif.

Instr. agr., Livermore high-sch., Calif., 1911–3; instr. agr., Univ. Calif., 1913–8; farm adv., 1918—. *b.* Germany, Nov. 18, 1880 (naturalized 1890); *s.* J. C. and M. (Nissen) C.; reared on farm; *m.* Anna Staples, Jan. 16, 1910; *c.* Andrew Jr., Freja, Carl, Auria. B.S.A., Univ. Calif., 1911.

Christie, George Irving, supt. agrl. ext., Purdue Univ., LaFayette, Ind.

Asst. agron., Ia. State Coll., 1903–5; asst. agron., Purdue Univ., 1905–6; present position, 1906—. Adv. mem. State Vocational Educ. Comn., 1911–2; sec. Ind. Corn Growers' Assoc.; dir. Nat. Corn Assoc. Chg. state farmers' insts. State food dir., Ind., 1917—; mem. Ind. Comn. on Food Production and Conservation. Asst. sec. agr., U. S. Dept. Agr., 1918—; mem. Nat. War Labor Bd. *b.* Winchester, Ont., June 22, 1881; *s.* David and Mary Ann (Howes) C.; reared on farm; *m.* Ethel Maria Carpenter, June, 1906; *c.* Erminia Margaret. B.S.A., Ont. Agr. Coll., 1902; B.S.A., Ia. State Coll., 1903. Alpha Zeta; Alpha Gamma Rho; Sigma Delta Chi.

Chubbuck, Levi, agrst., Off. Farm Manag., Riverside, Calif.

Supt. coll. farm, Univ. Mo., 1882–4; assoc. ed., Coleman's Rural World, St. Louis, 1885–90; ed., 1898–1902; special insp. for agr., Indian Bur., U. S. Dept. Interior, 1902–8; with U. S. Dept. Agr., 1909—. Sec. Mo. State Bd. Agr., 1890–4. Traveled for U. S. Dept. Agr. in Alaska, 1909 and 1911. *b.* Lower Bartlette, N. H., Oct. 23, 1856; *s.* Edwin R. and Martha Elizabeth (Stevens) C.; reared on farm; *m.* Josephine Mitchell, Apr. 24, 1895. B.S.A., Univ. Mo., 1882; M.S.A., 1885.

Church, James Edward Jr., prof. classics and meteorologist Exp. Sta., Univ. Nev., Reno, Nev.

Instr. Latin and German, Univ. Nev., 1892–4; asst. prof. Latin, 1894–5; assoc. prof., 1895–6; prof., 1896–1918; prof. classics, 1918—; founder Mt. Rose Meterological Observatory (now branch Nev. Exp. Sta.), 1905; meteorologist, Nev. Exp. Sta., 1905—. *b.* Holly, Mich., Feb. 15, 1869; *s.* James E. and Mary Alice (Eisenbrey) C.; reared in town; *m.* Florence Humphrey, Jul. 2, 1894; *c.* Willis Humphrey, Donald Eisenbrey. B.A., Univ. Mich., 1892; Ph.D., Univ. Munich, 1901. Phi Beta Kappa; Phi Kappa Phi.

Clapp, Alfred Lester, co. agrl. agt., Council Grove, Kans.

Foreman agron. farm, Kans. State Agr. Coll., 1914–5; manag. ranch, Colo., 1915–6; agt. Morris Co., Kans., 1916—. *b.* Fort Scott, Kans., Sept. 16, 1889; *s.* Chas. L. and Ida M. (Baker) C.; reared on farm; *m.* Stella Opal Cady, June 7, 1918. B.S.A., Kans. State Agr. Coll., 1914. Sigma Gamma Delta.

Clapp, Raymond Kingsley, agrst., First Nat. Bank, New Haven, Conn.

General farming, 1907–8, 1912–4; agrl. instr. and farm supt., Smith's Agr. Sch., Northampton, Mass., 1914–7; sec. Hampshire Co. Farm Bur., 1916–7; present position, 1917—. *b.* Westhampton, Mass., Nov. 4, 1889; *s.* Edwin B. and Nelly H. (Kingsley) C.; reared on farm; *m.* Lora E. Buck, Dec. 31, 1914. B.S., Mass. Agr. Coll., 1912. Theta Chi.

Clark, Arthur William, assoc. chem., N. Y. Agr. Exp. Sta., Geneva, N. Y.

Asst. chem., Penn. Exp. Sta., 1904–5; present position, 1905—. *b.* Glover, Vt., Aug, 22, 1879; *s.* Wm. F. and Elizabeth (Marston) C.; reared on farm; *m.* Muriel

C. Blood, Oct. 6, 1909; *c.* Ruth Elizabeth, Chas. Marston. B.S., Univ. Vt., 1904.

Clark, Charles C., asst. chief Weather Bur., Washington, D. C.

Chg. Bur. Statistics, U. S. Dept. Agr., 1906–7; chief clerk, U. S. Dept. Agr., 1911–4; present position, 1914—. Statistician, Intern. Inst. Agr., Rome, Italy, 1908–10. *Ed.*, Crop Reporter, U. S, Dept. Agr., 1905–7. *b.* Washington, D. C., Mar. 6, 1875; *s.* Ezra W. and Sylvia (Nodine) C.; reared on farm and in city; *m.* Mary D. Swingle, 1905; *c.* Chas. C. Jr., Robt. Duncan, Mary Elizabeth, Anita. LL.B., Philadelphia Law Sch., 1899; LL.M., Columbia Univ., 1900; D.C.L., 1901.

Clark, Charles Frederick, asst. agron., Colo. Potato Exp. Sta., Greeley, Colo.

Asst. agron., Exp. Sta., Cornell Univ., 1906–8; asst. plant-breeding, 1908–10; with U. S. Dept. Agr., 1910—. Fellow A. A. A. S. *b.* Glover, Vt., Aug. 13, 1873; *s.* Wm. Frederick and Elizabeth (Marston) C.; reared on farm; *m.* Minnie E. Husser, May 28, 1914. B.S., Univ. Vt., 1897; M.S.A., Cornell Univ., 1907; Ph.D., 1909. Sigma Xi; Sigma Nu.

Clark, Charles Henry, asst. agron. in chg. flax invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Asst. agrst., N. D. Exp. Sta., 1909–10; asst. plant-breeder, Ariz. Exp. Sta., 1910–1; asst. in crop acclimatization, cotton breeding, U. S. Dept. Agr., 1911–3; present position, 1913—. *b.* Tower City, N. D., Aug. 6, 1887; *s.* Geo. F. and Emma (Hilton) C.; reared on farm and in town; *m.* Ellen Esther Clark, Sept. 16, 1913; *c.* Philip Warner, Ellen Elizabeth. B.S.A., N. D. Agr. Coll., 1908.

Clark, Floyd Barzilia, prof. econ., Tex. A. & M. Coll., College Station, Tex.

Instr. English, Ga. Sch. of Tech., 1909–11; instr. political sci., Penn. State Coll., 1914–5; asst. prof., 1915–6; present position, 1916—. Traveled in France and England, 1910. *Auth.:* Constitutional Doctrines of Justice Harlan, 1915. *b.* Chesterfield Co., Va., Sept. 11, 1886; *s.* P. B. and Mattie A. (Belcher) C.; reared on farm and in small town; *m.* Ruth Haines, June 24, 1915. A.M., Richmond Coll., Va., 1908; Ph.D., Johns Hopkins Univ., 1914.

Clark, J. Artemas, supt. Dominion Exp. Sta., Charlottetown, P. E. I.

Lect. farmers' insts., P. E. I., 1903–7; asst. to seed comnr., Ottawa, 1908–9; lect. short courses, P. E. I., 1909–18. Pres. P. E. I. Floral Assoc. Farmer. *b.* Bay View, P. E. I., Aug. 2, 1878; *s.* John C. and Annie Margaret (Simpson) C.; reared on farm; *m.* Wilhelmina A. Toole, Mar. 30, 1910; *c.* Eina Marion. B.S.A., Toronto Univ., 1906.

Clark, Olin Mitchell, assoc. prof. rural educ., Clemson Agr. Coll, Clemson College, S. C.

Asst. prof. agron., Clemson Agr. Coll., 1912–8; assoc. prof. rural educ., 1918—. *b.* Chapin, S. C., June 22, 1885; *s.* O. P. and Ophelia (Alewine) C.; reared on farm. B.S., Clemson Agr. Coll., 1909; M.S., Cornell Univ., 1918.

Clark, Robert Fry, prof. econ. and sociol. and acting pres., Pacific Univ., Forest Grove, Ore.

Prof. foreign languages, Central Coll., 1902–5; princ. Washburn Acad., 1906–11; fellow sociol. and research asst. social tech., Univ. Chicago, 1911–3; assoc. prof. econ. and sociol., Colgate Univ., 1913–4; asst. econ., Univ. Chicago, 1914–5; dean and prof. econ. and sociol., Pacific Univ., 1915—; acting pres., 1917—. Specialty, rural sociol. *b.* Galt, Ont., Feb. 10, 1880 (naturalized 1898); *s.* Robt. A. and Elizabeth (Fry) C.; reared on farm and in city; *m.* Mary Adeline Willard, Oct. 16, 1913; *c.* Elizabeth Mary, Francis Willard. A.B., Central Coll., 1901; Oberlin Coll., 1902; A.M., Univ. Chicago, 1906.

Clark, William Darrow, prof. for., Mass. Agr. Coll., Amherst, Mass.

Instr. and asst. prof. for., Penn. State Coll., 1909–12; present position, 1912—. *b.* Rahway, N. J., May 27, 1877; *s.* Chas. H. and Harriet Newel (Crowel) C.; reared on farm and in city; *m.* Emma A. McFeely, Mar. 28, 1912; *c.* Elinor Elizabeth. A.B., Yale Univ., 1904; M.F., 1909.

Clarke, Virgil Vincent, co. agrl. agt., Plymouth, Ind.

b. Edinburg, Ind., Mar. 20, 1894; *s.* T. Curtis and Frances (Barlow) C.; reared on farm. B.S.A., Purdue Univ., 1917.

Clarke, Warren Thompson, prof. agrl. ext., Univ. Calif., Berkeley, Calif.

Asst. ent. and asst. supt. farmers' insts., Univ. Calif., 1903–6; prof. ent., Ala. Poly. Inst., 1906–7; prof. hort. and supt. farmers' inst., Univ. Calif., 1907–12; prof. agrl. ext., 1912—. *b.* San Francisco, Calif., Mar. 15, 1863; *s.* Chas. R. and Marie Louise (Thompson) C.; reared in town and country; *m.* Elizabeth Agnes Allen, Dec. 22, 1885; *c.* Allen Louis, Dorothy Ward, Elizabeth Anna, Catherine, Chas. B.S., Univ. Calif., 1903. Sigma Xi.

Clausen, Theodore Barton, co. agrl. agt., Court House, Schenectady, N. Y.

Farmer and stockman, 2 yrs.; manag. cow testing assoc., 2 yrs. Pres. N. Y. State Dairy Students' Butter and Cheesemakers' Assoc., 1916–8. *b.* Hoboken, N. J., Nov. 30, 1894; *s.* Bernard and Mary (Chancellor) C.; reared in town; *m.* Mildred Taber, Aug. 27, 1917. Grad. N. Y. State Sch. Agr., Alfred Univ., 1914.

Claybaugh, Joseph Harrison, co., agrl. agt., Clay Center, Neb.

Instr. agr., Fairfield, Neb., 1914–6; Sioux Co. high-sch., 1916–7; asst. state club leader, Univ. Neb., 1917–8; agt. Clay Co., 1918—. *b.* Emmerson, Ia., Apr. 27, 1889; *s.* Mathew S. and Mary E. (Moore) C.; reared on farm; *m.* Helen Krause, Aug. 12, 1916. B.Sc., Bellevue Coll., 1912; Univ. Neb., 1914.

Cleeves, Edward Warren, co. agrl. agt., Warrensburg, N. Y.

Dairy and poultry farming, 9 yrs. *b.* Meadowbrook, N. Y., Aug. 15, 1882; *s.* Wm. A. and Susie E. (White) C.; reared on farm; *m.* Clara B. Dubbstadt, Jan. 12, 1910; *c.* Wm., Geo., Mary. B.S.A., Cornell Univ., 1907.

Clemens, Ralph Hagey, agrl. rep., Arthur, Ont.

Drainage dem., Ont. Agr. Coll., 1912–3; agrl. rep., Waterloo Co., 1914; supt. Monteith Dem. Farm., New Ontario, 1915–7; agrl. rep., Wellington Co., 1918—. *b.* Galt, Ont., Jul. 17, 1885; *s.* Wm. Henry and Amelia (Hagey) C.; reared on farm. B.S.A., Ont. Agr. Coll., 1912.

Clement, Fannie Fletcher, dir. Town and Country Nursing Serv., American Red Cross, Glencarlyn, Va.

Social worker, Social Serv. Dept., Boston Dispensary, 8 mos. Mem. Bd. Dirs., Nat. Organization Public Health Nursing; mem. Nat. Com. on Red Cross Nursing Serv. Special attention to public health nursing in rural communities. *Ed.*, Bulletin of Town and Country Nursing Service. *b.* Boston, Mass., May 14, 1880; *d.* Geo. W. and Maria F. (Edwards) C.; reared in city. A.B., Smith Coll., 1903; B.S., Simmons Coll., 1912; Boston City Hospital Training Sch., 2 yrs.; Boston Lying-In Hospital, 6 mos.

Clement, Fred Moore, prof. hort., Univ. B. C., Vancouver, B. C.

Agrl. rep., Elgin Co., Ont., 1911–2; lect. hort., Macdonald Coll., 1912–4; dir. Exp. Sta., Vineland, Ont., 1914–6; present position, 1916—. Sec.-treas. B. C. Fruit Growers' Assoc. *b.* Virgil, Ont., Nov. 21, 1884; *s.* John Putnam and Lily E. (Zimmerman) C.; reared on farm; *m.* Florence Wegernart, Aug. 19, 1913; *c.* Paul Wilfrid. B.S.A., Ont. Agr. Coll. and Univ. Toronto, 1911.

Clement, Peter Ernest, asst. co. agt. leader, Univ. Minn., St. Paul, Minn.

Princ. high-sch. and supt. public schs., Wis., Neb. and Wyo., 1900–12; co. agt., Moorhead, Minn. *b.* Clinton Co., Ia., May 17, 1873; *s.* Benj. and Eliza (Lippincot) C.; reared on farm; *m.* Ora A. Crandall, Aug. 14, 1904; *c.* Ruth Helene, Ernest Crandall. A.B., Milton Coll., Wis., 1900; B.S.A., Colo. Agr. Coll., 1913; A.M., Milton Coll., 1914.

Clinton, George Perkins, bot., Conn. Exp. Sta., New Haven, Conn.

Asst. bot., Univ. Ill. and Exp. Sta., 1890–1900; present position, 1902—; bot. Conn. State Bd. Agr., 1902—. Vice-pres. Sect. G., A. A. A. S., 1914; pres. Am. Phytological Soc., 1913. Sent by Harvard Univ. to Japan to study economic fungi and by U. S. Dept. Agr. to Porto Rico. Editorial bd., Phytopathology, 1917—. *b.* Polio, Ill., May 7, 1867; *s.* John W. and Carrie A. (Perkins) C.; reared in small city; *m.* Anna J. Lightbody, Aug. 9, 1892; *c.* Harry L. B.S., Univ. Ill., 1890; M.S., 1894; M.S., Harvard Univ., 1901; Sc.D., 1902. Sigma Xi.

Clinton, Louis Adelbert, agrst. and asst. chief, Off. of Ext. North and West, U. S. Dept. Agr., Washington, D. C.

Asst. to dir., Mich. Exp. Sta., 1890–3; asst. agrst., Clemson Agr. Coll., 1893–5; asst. agrst., Cornell Exp. Sta., 1895–1902; dir. Storrs Exp. Sta. and prof. agr., Conn. Agr. Coll., 1902–12; present position, 1912—. Pres. Am. Soc. Agron., 1912–3. *b.* Grand Rapids, Mich., Feb. 13, 1868; *s.* F. H. and Rhoby Ann (Allen) C.; reared on farm; *m.* Florence A. Seage, Sept. 16, 1892; *c.* Ruth, Ruby, Olive. B.S., Mich. Agr. Coll., 1889; M.S., 1902.

Clore, Leonard B., treas. and dir. Fed. Land Bank, Louisville, Ky.

Co. agrl. agt., La Porte, Ind. Mem. State Bd. Agr.; mem. Ind. State Legislature. Del. to Farmers' Nat. Congress. Received medal on corn, Paris Expos.; grand prize, St. Louis Expos.; two grand prizes Nat. Corn Expos. Originator "Johnson Co. White Dent" seed corn. *b.* Franklin, Ind., Apr. 24, 1866; *s.* John and Eliza (Uterback) C.; reared on farm; *m.* Ola O. Clore, Sept. 24, 1889; *c.* Roy D.

Close, Charles Phillip, pom., U. S. Dept. Agr., Washington, D. C.

Asst. hort., N. Y. State Exp. Sta., Geneva, 1895–9; hort., bot., ent., Utah Agr. Coll., 1899–1901; hort., Del. Coll., 1901–7; hort., Md. Agr. Coll., 1907–11; present position, 1911—. Sec.-treas., Am. Soc. for Hort. Sci., 1907—. *b.* New Buffalo township, Mich., Jan. 21, 1868; *s.* Chas. and Caroline (Kobelin) C.; reared on farm; *m.* Margaret Whyte Blandy, Oct. 11, 1906. B.S., Mich. Agr. Coll., 1895; M.S., 1897.

Clough, Robert Samuel, co. agrl. agt., Benton, Ky.

Princ. schs., Holliday, Mo., 1909–11; supt. city schs., Queen City, Mo., 1912–5; short course asst. vet. sci., Univ. Mo., 1917. *b.* Wyaconda, Mo., Jul. 7, 1888; *s.* Geo. and Ida May (Wilson) C.; reared on farm; *m.* Lulu Mary Casper, June 22, 1917. B.S.A., Univ. Mo., 1917.

Cloyd, David McNutt, co. agrl. agt., Warrenton, Va.

Asst. bact. and an. husb., Va. Poly. Inst., 1905; farmer, 1905–17. *b.* Dublin, Va., Sept. 2, 1883; *s.* David McNutt and Mary Buford (Langhorne) C.; reared on farm; *m.* Manie Elizabeth Guthrie, Aug. 7, 1907; *c.* Lelia Langhorne, David McNutt, James Guthrie. B.S., Va. Poly. Inst., 1904.

Cobb, Herbert Nelson, co. agrl. agt., Wilkes-Barre, Pa.

Asst. expl. agron., Penn. State Coll., 1914; asst. instr., 1913–4; ext. rep., Luzerne Co., 1914—. *b.* Factoryville, Pa., Sept. 12, 1890; *s.* Nelson G. and Hannah D. (Sickler) C.; reared on farm. B.S., Penn. State Coll., 1914. Alpha Zeta; Phi Kappa Phi.

Cobb, Nathan Augustus, agrl. tech., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Teach. public schs., Spencer, Mass., 1877–8; prof. chem. and nat. sci., Williston Sem., Mass., 1881–7; appointee British Assoc. Adv. Sci., Naples Zool. Sta., 1888–9; prof. biol., Sydney Univ., New S. Wales, 1890–1; path., Dept. Agr., New S. Wales, 1891–8, 1901–4; manag. Wagga Exp. Farm, 1897–8; agrl. comnr., New S. Wales to Europe and U. S., 1898–1901; dir. div. physiology and path., Hawaiian Sugar Planters' Exp. Sta., Honolulu, 1904–7; present position, 1907—; acting asst. chief, Bur. Plant Ind., 1911—. *b.* Spencer, Mass., June 30, 1859; *s.* Wm. H. and Jane A. (Bigelow) C.; *m.* Alice Vara Proctor, Aug. 8, 1881. B.Sc., Worcester Poly. Inst., 1881; Ph.D., Univ. Jena, 1888.

Coburn, Foster Dwight, sec. Kans. State Bd. Agr., Topeka, Kans.

Pres. Bd. Regents, Kans. State Agr. Coll.; chief live-stock dept., La Purchase Expos.; present position, 21 yrs. *Auth.:* Swine Husbandry, 1877; Alfalfa, 1903; The Book of Alfalfa, 1910; Swine in America, 1915. On editorial staff, Live-Stock Indicator, Kansas Farmer, Missouri Valley Farmer, Farmers' Mail and Breeze. Served in Civil War. *b.* Jefferson Co., Wis., May 7, 1846; *s.* E. W. and Mary Jane (Mulks) C.; reared on farm; *m.* Lou Jenkins, Sept. 1869; *c.* Tina Louise, Gertrude, Clay E. A.M. (hon.), Baker Univ.; LL.D., Kans. State Agr. Coll.

Cochel, Wilber Andrew, Am. Shorthorn Breeders' Assoc., Manhattan, Kans.

Asst. an. husb., Purdue Exp. Sta., 1905–6; assoc., 1906–10; prof. an. husb., Penn. State Coll., 1910–2; prof. an.

husb., Kans. State Agr. Coll., 1912–8; present position, 1918—. Pres. Am. Soc. of An. Production; pres. Federated Meat Producers' Assoc.; adv. com. on beef cattle, U. S. Food Administration. *b.* Tipton, Mo., Aug. 7, 1877; *s.* Wm. Henry and Charlotte (Calvin) C.; reared in country town; *m.* Caroline Fahnestock, Oct. 1, 1908. A.B., Univ. Mo., 1897; B.S., 1905. Sigma Xi; Alpha Zeta; Phi Kappa Phi; Gamma Sigma Delta.

Cocke, Randolph Preston, supt. Agr. Exp. Sta., Williamsburg, Va.

Farmer, 1906—. *b.* Powhatan Co., Va., Sept. 3, 1884; *s.* T. L. P. and Mary (Curtis) C.; reared on farm; *m.* Christine McRae, June 14, 1911; *c.* Duncan McRae, Mary Curtis, Thos. Preston. B.S., Va. Poly. Inst., 1906.

Coen, Edward Emanuel, co. agrl. agt., Fordyce, Ark.

Teach. agr., high-sch., Natchitoches Parish, La., 1 yr.; Tisheminge, Miss., 1 yr.; instr. farm crops, Tex. A. & M. Coll., 1 yr. *b.* Hoboken, N. J., Mar. 22, 1888; *s.* Chas. and Jennie (Franklin) C.; reared on farm. B.S.A., Miss. A. & M. Coll., 1911.

Coffey, George Nelson, state leader co. advs., Univ. Ill., Urbana, Ill.

Bur. Soils, U. S. Dept. Agr., 1900–11; Ohio Exp. Sta., 1911–5; asst. state leader co. advs., Univ. Ill., 1915–7; state leader, 1917—. *b.* Patterson, N. C., Jan. 17, 1875; *s.* Elijah and Mary Ann (Nelson) C.; reared on farm; *m.* Clara Kean, Apr. 22, 1914. Ph.B., Univ. N. C., 1900; M.S., Geo. Washington Univ., 1908; Ph.D., 1911.

Coffey, Joel Simmonds, asst. prof. an. husb., Ohio State Univ., Columbus, O.

Instr. an. husb., Purdue Univ., 1912–4; lect., Univ. Ia., summers, 1913–4; present position, 1914—. Farm operator, 2 yrs. *b.* Rugby, Ind., Dec. 8, 1884; *s.* Calvin Allen and Josephine (Simmonds) C.; reared on farm. B.S., Univ. Ill., 1912. Alpha Zeta.

Coffey, Walter Costella, prof. sheep husb., Univ. Ill., Urbana, Ill.

Instr. sheep husb., Univ. Ill., 1906–7; assoc., 1907–10; asst. prof., 1911–3; prof., 1913—. Special agt. Tariff Bd. under Pres. Taft, 1911. *Auth.:* Productive Sheep Husbandry, 1918. *b.* Hartsville, Ind., Feb. 1, 1877; *s.* Calvin Allen and Josephine (Simmonds) C.; reared on farm; *m.* Jennie C. Lardner, Aug. 14, 1907; *c.* Lardner Allen, Walter C. Jr. B.S., Univ. Ill., 1906; M.S., 1909. Sigma Xi; Alpha Zeta; Sigma Alpha Epsilon.

Coffin, George Peabody, ext. poultry husb., U. S. Bur. An. Ind. and Conn. Agr. Coll., Storrs, Conn.

Mem. Me. State Legislature, 1915–6, 1917–8. Pres. Me. State Poultry Assoc. *Assoc. ed.*, Turf, Farm and Home, Waterville, Me., 1894–9; ed. and pub. Eastern Poultryman. *b.* Freeport, Me., June 21, 1869; *s.* Orrin D. and Caroline W. (Corliss) C.; reared on farm; *m.* Mary Blaisdell, June 24, 1897; *c.* Margaret B., Robt. L., Richard O., Emily H. Grad. Androscoggin Business Coll., 1889.

Coffin, Roscoe Calvin, asst. state sec. Y. M. C. A., Minneapolis, Minn.

Dept. supt., Minn. State Agr. Soc. Mem. Bd. Trustees of Penn. Coll. Sec. Co. Y. M. C. A., 6 yrs. Specially interested in rural sociol. *b.* Pleasant Plain, Ia., Sept. 23, 1876; *s.* Jeremiah and Martha Ann (Bray) C.; reared on farm; *m.* Isabella Reid, Aug. 5, 1914; *c.* Wilbur Reid. B.S., Penn. Coll., Oskaloosa, Ia., 1905; M.A., 1912.

Coffindaffer, Ernest Wayne, co. agrl. agt., Lebanon, Va.

Superv. schs., W. Va., 1915–6; agt. Russell Co., Va., 1917—. *b.* Harrison Co., W. Va., Mar. 25, 1884; *s.* Abraham B. and Sarah J. (Carder) C.; reared on farm; *m.* Leda Clayton, Jul., 1910; *c.* Roberta Lee, Gene. B.S., W. Va. Univ., 1915.

Coglon, Roger Brandt, co. agt. leader, Wash. State Coll., Pullman, Wash.

Asst. distr. rep., Ont. Co., Ont., 1910; ext. lect., Univ. Sask., 1911; state seed comnr., Ida., 1912–3; state leader co. agrsts. Ida., 1913–4; co. agt., Eugene, Ore., 1914–6; present position, 1916—. Del. from Ida. to Inter. Dry-Farming Congress, Lethbridge, Canada, 1912. Sec. Ida. Seed Growers' Assoc., 1912–4. *b.* Kingston, Ont., Feb. 22, 1888 (naturalized 1917); *s.* I. I. and Mary C. (Orser) C.; reared on farm; *m.* Hazel L. Frye, Sept. 2, 1913. B.S.A., Univ. Toronto, 1911.

Coit, John Eliot, prof, citriculture, Univ. Calif., Berkeley, Calif.

Assoc. prof. hort., Univ. Ariz., 1907–9; asst. prof. pom., Univ. Calif., 1909–12; assoc. prof. pom. and supt. Citrus Exp. Sta., 1911–2; prof. citriculture, 1912—; farm adv., Los Angeles Co., 1918—. Fellow A. A. A. S. Dir. Calif. Avocado Growers' Soc. *Auth.:* Citrus Fruits, 1915. *b.* San Antonio, Tex., Mar. 9, 1880; *s.* Wm. Henry and Anna Maria (Summerell) C.; reared in city and truck farm; *m.* Emilie A. Hanna, Aug. 7, 1907; *c.* Eleanor M., Frances Eliot. B.Agr., N. C. A. & M. Coll., 1903; M.S.A., Cornell Univ., 1905; Ph.D., 1907. Sigma Xi; Gamma Alpha.

Cokeley, Harlin Rex, co. agrl. agt., Moorefield, W. Va.

Instr. an. husb., W. Va. Univ., 1917—. *b.* Harrisville, W. Va., June 13, 1891; *s.* E. E. C.; reared on farm; *m.* Clara S. McMillen, June, 1917. B.S.A., W. Va. Univ., 1917. Kappa Sigma.

Cole, John Selden, agrst., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Special agt., U. S. Dept. Agr., 1903–5; asst. agrst. in chg. agron., S. D. State Coll., 1905–8; present position, 1908—. *b.* Cincinnatus, N. Y., Nov. 19, 1878; *s.* Harley and Mercy Ann (Fisk) C.; reared on farm; *m.* Beatrice Lightfoot, Sept. 17, 1903; *c.* Selden D., Arthur W., Geo. L. B.S., S. D. State Coll., 1903.

Cole, Leon Jacob, prof. genetics, Univ. Wis., Madison, Wis.

Chief div. an. path. and breeding, R. I. Exp. Sta., 1906–7; acting chief, 1907–8; instr. zool., Sheffield Sci. Sch., Yale Univ., 1907–10; assoc. prof. expl. breeding, Univ. Wis., 1910–4; prof., 1914–8; prof. genetics, 1918—. Invest. U. S. Bur. Fisheries, summers, 1901–6. Fellow Am. Acad. Arts and Sci.; mem. council Inter. Assoc. Poultry Instrs. and Invests. Mem. Harriman Alaska Exped., 1899; zool. exped., Yucatan, 1904. *b.* Allegany, N. Y., June 1, 1877; *s.* Elisha Kelley and Helen Marion (Newton) C.; reared in city and on farm; *m.* Margaret Belcher Goodenow, Aug. 28, 1906; *c.* Margaret Valeria, Edward Goodenow. Student Mich. Agr. Coll., 1894–5, 1897–8; A.B., Univ. Mich., 1901; Ph.D., Harvard Univ., 1906.

Collier, John S., co. agrl. agt., Kankakee, Ill.

Auth.: Farmers' Account Book, 1915. *b.* Tipton, Ind., June 25, 1876; *s.* A. B. and Mary E. (Durham) C.; reared on farm; *m.* Lena E. Drayer, 1905. B.S., DePauw Univ., 1904; M.S., Univ. Chicago, 1910; 1 yr. grad work, Univ. Ill. Sigma Xi.

Collings, Hamilton Banks, asst. co. agt. leader, Purdue Univ., LaFayette, Ind.

b. Rockville, Ind., May 11, 1893; *s.* Wm. Bion and Laura Belle (Hamilton) C.; reared on farm; *m.* Emma Maude Loveless, June 30, 1918. B.S.A., Purdue Univ., 1918. Sigma Delta Chi.

Collingwood, George Harris, asst. prof. for., Cornell Univ., Ithaca, N. Y.

Present position, 1916—. *b.* Fayetteville, Ark., May 27, 1890; *s.* Chas. B. and Harriett (Thomas) C.; reared in village; *m.* Jean Grinnell Cummings, Sept. 1, 1916; *c.* Chas. Cummings. B.S., Mich. Agr. Coll., 1911; A.M., Univ. Mich., 1917; studied Univ. Munich, 1913–4.

Collingwood, Herbert Winslow, ed-in-chief Rural New-Yorker, Woodcliff Lake, N. J.

Ed., Southern Live-Stock Journal, Starkville, Miss., 1883–5; ed. Rural New-Yorker, 1885— ed.-in-chief, 1900—. *Auth.:* Andersonville Violets; Fertilizer Farming; The Business Hen; The Child; The Story of Hope Farm. Fruit farmer, 1898—. *b.* Plymouth, Mass., Apr. 21, 1857; *s.* Joseph W. and Rebecca W. (Richardson) C.; reared on farm; *m.* Lulie D. Sullivan, Apr. 6, 1888; *c.* Ava F. B.S., Mich. Agr. Coll., 1883; LL.D., 1906; D.Agr., Univ. Wis. Delta Tau Delta.

Collins, Charles Walter, ent. asst., Bur. Ent., U. S. Dept. Agr., Gipsy Moth Lab., Melrose Highlands, Mass.

b. Harrington, Del., Jul. 6, 1882; *s.* Geo. Washington and Sarah Pauline (Tharp) C.; reared on farm; *m.* Eva Narcissa Hone, June 4, 1909; *c.* Byron Hone. B.S.A., Del. Coll., 1905; M.S., 1913.

Collins, James Homer, invest., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Field asst., Ark. Exp. Sta., 1913–4;

sci. asst., Bur. Markets, 1914–5; asst. in market surveys, 1915–6; invest. in market surveys, 1917—. *b.* Fresno, Calif., Jan. 3, 1889; *s.* Chas. S. and Nettie (James) C.; reared in city; *m.* Serena F. Tilton, Dec. 28, 1916. B.S.A., Univ. Ark., 1913.

Collins, Morris William Hollowell, manag. pedigreed seed farm, Univ. Ga., Athens, Ga.

b. Franklin Co., Ind., Mar. 21, 1895; *s.* Harry Lincoln and Ida Olive (Hollowell) C.; reared in town; *m.* Eula D. Thomas, Nov. 29, 1916; *c.* Morris W. H. Jr. B.S.A., Univ. Ga., 1916.

Collison, Reginald Clifton, agron., N. Y. State Exp. Sta., Geneva, N. Y.

Asst. agrl. chem., Ohio State Univ., 1909; asst. nutr., Ohio Exp. Sta., 1909–12; asst. chem. in soils, N. Y. State Exp. Sta., 1912–4; assoc., 1914–7; agron., 1917—. *b.* Prospect, O., May 3, 1884; *s.* Chas. E. and Mary E. (Gast) C.; reared on farm. B.S.A., Ohio State Univ., 1908; M.S.A., 1909. Sigma Xi; Alpha Zeta.

Colliver, Samuel Addison, co. agrl. agt., Wadena, Minn.

Agrl. dir., high-sch., Dodge Center, Minn., 1912–3; Sandstone, 1913–8; agt. Wadena Co., 1918—. Treas. Minn. Agrl. Instr. Assoc., 1917–8. *b.* Bainbridge, Ind., Aug. 7, 1888; *s.* Wm. D. and Julia (Ader) C.; reared on farm; *m.* Charlotte Dean, June 30, 1915. B.S., Purdue Univ., 1912.

Colquhoun, Ezra Angus, co. agrl. agt., Brainerd, Minn.

Teach. Pillsbury Acad., Owatonna, Minn., 1911–2; teach. agr., Aitkin, 1915–6; co. agt., 1916—. *b.* Blooming Prairie, Minn., June 17, 1885; *s.* Archibald and Sarah (Rafter) C.; reared on farm; *m.* Claire I. Brown, Aug. 1, 1916; *c.* Margaret Irene. B.S., Ia. State Coll., 1915.

Colver, Charles William, asst. prof. agrl. chem. and asst. chem. Exp. Sta., Univ. Ida., Moscow, Ida.

b. Missouri Valley, Ia., Feb. 28, 1885; *s.* Joseph Wright and Abbie (Palmer) C.; reared on farm; *m.* Catharine Sinclair, Dec. 22, 1909; *c.* Margaret Louise, Catharine Helen. B.S., Univ. Ida., 1909; M.S., 1911. Phi Delta Theta.

Colvin, Carl, assoc. in agrl. educ., Univ. Ill., Urbana, Ill.

Instr. agr., high-sch., Bloomington, Ill., 1912–3; Blackburn Coll., 1913–5; Eastern Ill. State Normal Sch., 1915–8; present position, 1918—. *b.* Olney, Ill., Apr. 3, 1889; *s.* W. E. and Lydia Jane (Jackson) C.; reared on farm; *m.* Helen Schmidt, Dec. 21, 1912. B.S., Univ. Ill., 1912. Alpha Zeta ; Phi Delta Kappa.

Colwell, Rachel Hartshorne, head home econ. dept., Univ. W. Va., Morgantown, W. Va.

Instr. home econ., Mich. Agr. Coll., 1905–6; asst. dept. nutr. and grad. student, Columbia Univ., 1906–8; head dom. sci. dept., Lake Erie Coll., Painesville, O., 1908–10; present position, 1910—. Pres. W. Va. Home Econ. Assoc. Traveled in Europe, 1903. *b.* Providence, R. I., Jan. 12, 1877; *d.* R. S. and Emily (Hartshorne) C.; reared in city. B.S., Denison Univ., Granville, O., 1903; M.A., Teachers Coll., Columbia Univ., 1905. Phi Beta Kappa.

Comstock, Anna Botsford, asst. prof. nature-study, Cornell Univ., Ithaca, N. Y.

Asst. prof. ext. work in nature-study, Cornell Univ., 1899—; asst. prof. nature-study, 1913—; lect. Stanford Univ., 1899–1900. Awarded bronze medal for wood engraving, Buffalo Expos., 1901. *Auth.:* Ways of the Six-Footed; How to Know the Butterflies; How to Keep Bees; Confessions to a Heathen Idol, 1906; Handbook of Nature-Study, 1911; The Pet Book, 1914; Bird, Tree and Plant Note-books, 1914. *Ed.*, Nature-study Review, 1917—. *b.* Otto, N. Y., Sept. 1, 1854; *d.* Marvin and Phebe (Irish) Botsford; *m.* John Henry Comstock, Oct. 7, 1878. Grad. Chamberlain Inst., Randolph, N. Y., 1873; Cornell, 1878.

Comstock, John Henry, prof. ent. emeritus, Cornell Univ., Ithaca, N. Y.

Instr. ent., Cornell Univ., 1875–7; asst. prof., 1877–8; U. S. ent., Washington, 1879–81; prof. ent. and invertebrate zool., Cornell Univ., 1882–1914; prof. emeritus, 1914—. Lect. zool., Vassar Coll., 1877; non-resident prof. ent., Stanford Univ., 1891–1900. Del. from Cornell Univ. to 250th anniversary of Royal Soc., London. Hon. fellow Ent. Soc. Am.; hon. fellow, Ent. Soc. London;

hon. mem. Societe Entom. de Belgique. *Auth.:* A Manual for the Study of Insects, 1896; Insect Life, 1897; How to Know the Butterflies (with his wife), 1904; The Spider Book, 1912; The Wings of Insects, 1918. *b.* Jaynesville, Wis., Feb. 24, 1849; *s.* Ebinezer and Susan (Allen) C.; reared partly on farm; *m.* Anna Botsford, Oct. 7, 1878. B.S., Cornell Univ., 1874; grad. student Yale Univ., 1874–5, Univ. Leipzig, 1888–9. Delta Upsilon.

Condit, Ira Judson, asst. prof. citriculture, Univ. Calif., Berkeley, Calif.

Flor., Ohio State Univ., 1905–6; sci. asst., Bur. Ent., U. S. Dept. Agr., 1906–7; instr. bot. and hort., Calif. Poly. Sch., San Luis Obispo, 1907–12; instr. citriculture, Univ. Calif., 1913–5; asst. prof., 1915—. *b.* Jersey, O., Nov. 18, 1883; *s.* Daniel Day and Clara Jane (Spayde) C.; reared on farm and in small town; *m.* Caroline Callender, June, 1912. B.S., Ohio State Univ., 1905.

Condra, George Evert, prof. geography and conservation, Univ. Neb., Lincoln, Neb.

Head dept. sci., Lincoln Normal Sch., 1892–6; head dept. sci., Lincoln high-sch., 1896–1902; instr. geography and econ. geology, Univ. Neb., 1902–3; asst. prof., 1903–4; assoc. prof., 1904–5; prof., 1905—; head dept., 1908–12; present title, 1912—. Prof. geography, Cornell summer sessions, 1905–11.; asst. state geologist, 1902–10; dir. Neb. Conservation and Soil Survey, 1910—. Pres. Neb. Conservation and State Development Congress, 1910; chm. Nat. Conservation Comn., 1908–13; exec. sec. Neb. Conservation and Welfare Comn; chm. state Highway Comn., 1915; pres. Nat. Assoc. State Conservation Comnrs., 1910–3; mem. Neb. Rural Life Comn., 1910–2; chm. exec. com. Nat. Conservation Congress, 1915–6; pres., 1916—. Pres. Neb. Acad. Sci., 1909–11. *Auth.:* Geography of Nebraska, 1906. *b.* Seymour, Ia., Feb. 2, 1869; *s.* I. N. and Mary (Keller) C.; reared on farm; *m.* Hattie M. Davenport, Aug. 12, 1893; *c.* Cordelia. B.S., Univ. Neb., 1896; A.M., 1898; Ph.D., 1903. Sigma Xi; Sigma Chi; Alpha Zeta.

Cone, Willard Ray, prof. soils and field crops, N. Y. State Sch. Agr., Alfred, N. Y.

Princ. high-schs., Blasdell, N. Y., 1902–4; Orchard Park, 1904–7; Silver Springs, 1907–12; Edmeston, 1915–7; present position, 1917—. *b.* Hornell, N. Y., Apr. 10, 1874; *s.* Eleazer T. and Mary E. (Goff) C.; reared on farm; *m.* Eva E. Hill, Jan. 21, 1916. B.S., Cornell Univ., 1915.

Conn, Harold Joel, assoc. bact., N. Y. Agr. Exp. Sta., Geneva, N. Y.

Asst. soil tech., Cornell Univ., 1908–11; present position, 1911—. *b.* Middletown, Conn., May 28, 1886; *s.* Herbert W. and Julia M. (Joel) C.; reared in small city.; *m.* Anna Carter Mansfield, Jan. 5, 1916; *c.* Jean Elizabeth. Ph.B., Wesleyan Univ., 1908; Ph.D., Cornell Univ., 1911. Phi Beta Kappa; Sigma Xi; Beta Theta Pi.

Conner, Charles M., co. agrl. agt., Visalia, Calif.

Asst. prof. agr., Clemson Agr. Coll., 1896–1901; prof. agr., Univ. Fla., 1901–6; prof. agr., N. C. A. & M. Coll., 1906–7; asst. dir. agr., Philippine Isls., 1907–13; farmer, 1913–5; farm adv., 1915—. Studied agr. of Italy and France, 1911. *b.* Macon Co., Mo., Apr. 14, 1868; *s.* Stephen and Josephine (Edwards) C.; reared on farm; *m.* Ella D. Long; *c.* Laura Louise. B.S.A., Univ. Mo., 1891; B.S., Mich. Agr. Coll., 1892.

Conner, Samuel Dicken, assoc. chem. in soils and crops, Ind. Exp. Sta., LaFayette, Ind.

Deputy state chem., Purdue Univ., 1899–1905; asst. agrl. chem., 1905–8; asst. prof., 1908–12; present position, 1912—. Fellow A. A. A. S. *b.* Connersville, Ind., June 17, 1872; *s.* Henry Dicken and Rebecca (Vance) C.; reared on farm; *m.* Jessie Louise Cowing, June 21, 1909; *c.* Dicken Cowing, Jean Louise, Arthur Cowing. B.S., Purdue Univ., 1894; M.S., 1903. Sigma Xi.

Cook, Charles B., farmer, asst. state leader co. agrl. agts., E. Lansing, Mich.

Asst. zool., Mich. Agr. Coll., 1888–91; farmer Oswego, N. Y., 5 yrs.; Owosso, Mich., 22 yrs.; ext. work, Mich. Agr. Coll., 1913—. Pres. State Hort. Soc., 2 yrs.; pres. State Assoc. Farmers' Clubs. *b.* Owosso, Mich., June 17, 1868; *s.* E. J. and Anna (Benjamin) C.; reared on farm; *m.* Addie D. McGillvra, Nov., 1897. B.S., Mich. Agr. Coll., 1888; M.S., 1891.

Cook, Herbert E., agrst., Glenns Falls, N. Y.
Dean State Sch. Agr., St. Lawrence Univ., Canton, N. Y. Lect. on agr. *b.* Denmark, N. Y., Dec. 12, 1858; *s.* Ellis A. andAnna (Parsons) C.; reared on farm; *m.* Fannie Schermerhorn, Feb. 13, 1883; *c.* Clara R.

Cook, Irving Charles Holmes, farmer, S. Byron, N. Y.
Conductor and lect., farmers' insts. Sec.-treas. Byron Produce Co. Ex.-pres. N. Y. State Drainage Assoc. *b.* S. Byron, N. Y., Sept. 18, 1874; *s.* Irving D. and Julia A. (Holmes) C.; reared on farm; *m.* Julia G. Woods, Aug. 29, 1900; *c.* David Seaver, Dorothy Julia, Irving Wm. Studied Oberlin Coll. and Cornell Univ.

Cook, Irwin Wycliffe, prof. for., Univ. Ida., Moscow, Ida.
Present position, 1912—. *b.* Carthage, Ill., Nov. 20, 1882; *s.* Jerry and Melissa J. (Miller) C.; reared on farm; *m.* Mary S. Gaylord, Jul. 12, 1911; *c.* Edward Gaylord. B.S., Washburn Coll., 1907; M.S.F., Mich. Univ. For. Sch., 1910.

Cook, Melville Thurston, prof. plant path., Rutgers Coll., New Brunswick, N. J.
Princ. high-sch., Vandalia, Ill., 1894–5; prof. biol., DePauw Univ., 1895–1904; plant path., Cuban Exp. Sta., 1904–6; plant path., Del. Exp. Sta., 1906–11; plant path., N. J. Exp. Sta. and prof. Rutgers Coll., 1911—. Vice-pres. (1916) and pres. (1917) Am. Phytopathological Soc. *Auth.:* Diseases of Tropical Plants, 1913. Mem. editorial bd., Phytopathology. *b.* Coffeen, Ill., Sept. 20, 1869; *s.* W. H. and Elizabeth Frances (Robinson) C.; reared on farm; *m.* Dora Reavill, Sept. 8, 1897; *c.* Harvey Reavill, Harold Thurston, Elizabeth. A.B., Stanford Univ., 1894; A.M., DePauw Univ., 1902; Ph.D., Ohio State Univ., 1904. Phi Beta Kappa; Sigma Xi; Delta Upsilon.

Cookingham, Waldo Beale, teach. agr., Atlanta, N. Y.
Asst. teach. agr., high-sch., Interlaken, N. Y., 1916; teach. agr., high-sch., N. Cohocton and Atlanta, 1917—. *b.* Poughkeepsie, N. Y., Jul. 2, 1894; *s.* Russell T. and Carrie (Beale) C.; reared on farm. B.S., Cornell Univ., 1916. Alpha Gamma Rho.

Cooley, Abraham Coon, dir. ext. and co. agt. leader, N. Mex. A.& M. Coll,. State College, N. Mex.
Prof. agr., Jordan high-sch., 1911–2; Ogden high-sch., 1912–3; co. agrl. agt., San Luis Valley, Colo., 1913–4; present position, 1914—. Del. Nat. Irrig. Congress, Nat. Dry-Farming Congress. Traveled in Europe as missionary 3 yrs. *b.* Salt Lake City, Utah, June 16, 1884; *s.* Andrew Wood and Rachel Caroline (Coon) C.; reared on farm; *m.* Lucille Jensen, Nov. 19, 1913; *c.* Rachel Adline, Estelle Jensen. B.S.A., Utah Agr. Coll., 1911. Delta Theta Sigma.

Cooley, Fred Smith, dir. ext. serv., Mont. State Coll., Bozeman, Mont.
Asst. agrst., Mass. Exp. Sta., 1889; farm supt., Mass. Agr. Coll., 1890–7; asst. prof. agr., 1893–1907; present position, 1907—. *b.* Sunderland, Mass., Aug. 22, 1869; *s.* Geo. L. and Abigail (Smith) C.; reared on farm; *m.* Grace Content Smith, Oct. 4, 1893; *c.* Esther Belle, Geo. Atherton, Elizabeth Content, Laura Grace. B.S., Mass. Agr. Coll., 1888. Phi Sigma Kappa.

Cooley, Robert Allen, state ent. and prof. ent., Mont. State Coll., Bozeman, Mont.
Asst. ent., Mass. Exp. Sta., 1895–9; prof. ent. and ent. Exp. Sta., Mont. State Coll., 1899—; Mont. state ent., 1903—. Fellow A. A. A. S. Sec. Mont. State Bd. Ent., 1913—; pres. Am. Assoc. Econ. Ent., 1917. *b.* S. Deerfield, Mass., June 27, 1873; *s.* Alfred A. and Charlotte M. (Clapp) C.; reared on farm; *m.* Edith M. Cooley; *c.* Charlotte, Robt. Jr., Genevieve. B.Sc., Mass. Agr. Coll., 1896. Phi Sigma Kappa.

Coons, George Herbert, assoc. prof. bot. and plant path., Mich. Agr. Coll., E. Lansing, Mich.
Adj. prof. bot., Univ. Neb., 1909–10; present position, 1910—. *b.* Bloomington, Ill., Nov. 2, 1885; *s.* G. W. and Susan Elizabeth (Irwin) C.; reared on farm; *m.* Myrta A. Vogel, 1908; *c.* Myrta Susan. A.B., Univ. Ill., 1908; A.M., Univ. Neb., 1911; Ph.D., Univ. Mich. 1915. Sigma Xi; Gamma Alpha.

Cooper, John Ralph, prof. hort., Univ. Ark., Fayetteville, Ark.
Asst. hort., Kans. State Agr. Coll., 1912; asst. prof. hort., Univ. Neb., 1912–

6; assoc. prof., 1916–8; present position, 1918—. *b.* Washington, Ia., Apr. 18, 1883; *s.* Joseph and Laura Annis (Morgan) C.; reared on farm; *m.* Lillian Leonora Ware, June 15, 1913. B.S., Kans. State Agr. Coll., 1912; M.S., Univ. Neb., 1917. Sigma Xi; Alpha Zeta; Pi Kappa Alpha.

Cooper, Morton Oscar, ext. an. husb., Va. Poly. Inst., Blacksburg, Va.

Asst. an. husb., Del. Coll., 1912–3; sci. asst., U. S. Dept. Agr., 1913–7; present position, 1917—. *b.* Manson, Ia., Oct. 23, 1888; *s.* Thos. O. and Anna (Wright) C.; reared on farm; *m.* Rosalind Langworthy, Jan. 7, 1914. B.S., Ia. State Coll., 1912; M.A., American Univ., 1916. Phi Kappa Phi.

Cooper, Roswell D., farmer, Little Falls, N. Y.

Mem. N. Y. State Food Supply Comn., 1917. Pres. Dairymen's League; vice-pres. Nat. Milk Producers' Fed.; pres. Coop. Milk Producers' Marketing Assoc.; pres. Country Milk Co.; sec. Little Falls Dairy Co.; dir. Fed. Bd. of Farm Organizations; chm. Conference of N. Y. Farm Organizations; mem. council, Am. Assoc. for Agrl. Legislation. *b.* Little Falls, N. Y., Mar. 27, 1877; *s.* Benj. W. and Helen A. (Brown) C.; reared on farm; *m.* Marguerite L. Allen, Oct. 10, 1914; *c.* Allen, Walter W. A.B., Williams Coll., 1900. Zeta Psi.

Cooper, Thomas Poe, dean Coll. Agr. and dir. Exp. Sta., Univ. Ky., Lexington, Ky.

Statistical agt., Minn. Exp. Sta., 1902–7; special agt., Bur. Statistics, U. S. Dept. Agr., 1902–7; asst. farm manag., instr. agrl. econ., Univ. Minn., 1908–11; asst. chg. dem. farms, 1910–1; sec. Better Farming Assoc. of N. D., 1912–3; dir. ext. and Exp. Sta., N. D. Agr. Coll., 1914–7; present position, 1918—. Pres. Bd. of Farmers' Insts., N. D., 1914–7; vice-chem., Ky. State Bd. Agr. and Ky. State Live-Stock Sanitary Bd. *b.* Pekin, Ill., Mar. 2, 1881; *s.* J. R. and Sue B. (Poe) C.; reared on farm; *m.* Essie N. Burgan, 1912. B.S.A., Univ. Minn., 1908. Alpha Zeta.

Cooter, John Edward, sch. gard. superv., 551 Court House, Portland, Ore.

Instr. soils and farm manag., Ore. Agr. Coll., 1913–8; present position, 1918—. *b.* Lebanon, Ore., Oct. 29, 1891; *s.* Dennis and Belle (Miller) C.; reared on farm; *m.* Cora Hubler, Aug. 24, 1914; *c.* Annabelle Ellen. B.S.A., Ore. Agr. Coll., 1913.

Cope, Ralph P., prof. agrl. chem., Wash. State Coll., Pullman, Wash.

Prof. sci., Western Union Coll., 1911–2; present position, 1912—. *b.* Hanoverton, O., Jul. 12, 1885; *s.* John A. and Emma (Pearce) C.; reared on farm; *m.* Mary B. Deems, Aug. 6, 1913; *c.* Dorothy Lee. B.S., Ill. Wesleyan Univ., 1910; grad. student Univ. Chicago, 1910–1. Sigma Alpha Epsilon.

Copeland, Arthur J., asst. in grain marketing, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Head dept. agr., Normal Inst., Marion, Ind., 1916–7. *b.* Peebles, O., May 22, 1889; *s.* Wm. and Hester Ann (Smalley) C.; reared on farm. B.S.A., Ohio State Univ., 1915.

Copeland, Edwin Bingham, farmer and experimenter, Chico, Calif.

Asst. prof. bot., Ind. Univ., 1897–8; State Normal Sch., Chico, Calif., 1899; asst. prof. bot., W. Va. Univ., 1899–1900; prof., 1900–1; instr. bot., Stanford Univ., 1901–3; bot., Philippine govt., 1903–8; supt. Philippine Agr. Sch., 1908–9; dean Coll. Agr., Univ. Philippines, 1909–17. Fellow A. A. A. S. *Auth.:* Philippine Agriculture, 1908; The Coconut, 1914; Ethics, The Science of Conduct, 1918. Former assoc. ed., Mexican Journal of Tropical Agriculture and Philippine Journal of Science. *b.* Monroe, Wis., Sept. 30, 1873; *s.* Herbert Edson and Alice (Bingham) C.; *m.* Ethel Faulkner, Dec. 19, 1900; *c.* Herbert F., Mary F., Alice B., Chas. F. A.B., Stanford Univ., 1895; Ph.D., Univ. Halle, 1896. Phi Gamma Delta.

Corbett, Lee Cleveland, hort. in chg. hort. and pom. invest., U. S. Dept. Agr., Washington, D. C.

Asst. hort., Cornell Univ. Exp. Sta., 1891–3; prof. hort. and for., S. D. State Coll., 1893–5; W. Va. Univ., 1895–1901; hort., U. S. Dept. Agr., 1901–13; asst. chief, Bur. Plant Ind., 1913–5; present position, 1915—. Fellow A. A. A. S. *Auth.:* Garden Farming, 1913; Intensive Agriculture, 1913. *b.* Schuyler Co., N. Y., Oct. 21, 1867; *s.* J. Wallace and Lucia

M. (Gabriel) C.; reared on farm; *m.* Evelyn Lovenia Northrup, Mar. 23, 1893; *c.* Ruth, Frances, Roger Bailey, Laurence Ward, Thurston Lee. B.S., Cornell Univ., 1890; M.S., 1896.

Corbett, Louis L., asst. agrst., U. S. Dept. Agr., Blissfield, Mich.

Asst. farm crops, Va. Truck Exp. Sta., 1910–2; present position, 1912—. *b.* Watkins, N. Y., Mar. 27, 1875; *s.* John Wallace and Lucia M. (Gabriel) C.; reared on farm; *m.* Ida Jones; *c.* Wallace Jerome, Lois, Louis L. Jr. LL.B., W. Va. Univ., 1897.

Cordley, Arthur Burton, dean Coll. Agr. and dir. Exp. Sta., Ore. Agr. Coll., Corvallis, Ore.

Asst. ent., Mich. Agr. Coll., 1888–90; asst. ent., Vt. Exp. Sta., 1890–1; asst. ent., U. S. Dept. Agr., 1891–3; farmer, 1893–5; prof. zool. and ent. Exp. Sta., Ore. Agr. Coll., 1895—. dean Coll. Agr., 1907—; dir. Exp. Sta., 1914—. *b.* Pinckney, Mich., Feb. 11, 1864; *s.* Chas. and Esther (Hicks) C.; *m.* Mary Celia McLouth, Jul. 5, 1893. B.S., Mich. Agr. Coll., 1888; M.S., 1901; D.Sc., 1917. Phi Delta Theta; Gamma Alpha; Gamma Sigma Delta.

Coryell, Jay, asst. co. agt. leader, Cornell Univ., Ithaca, N. Y.

Instr. agr., Northboro, Mass., high-sch., 1912; Woburn, Mass., Acad., 1912; North Easton, Mass., high-sch., 1912; agrl. agt. Windsor Co., Vt., 1912–5; asst. state co. agt. leader, Univ. Vt., 1915–7; present position, 1917—. *b.* Romulus, N. Y., Feb. 5, 1886; *s.* Newman Potter and Susan L. (Sayre) C.; reared on farm; *m.* Helen Stewart Folwell, Feb. 7, 1912; *c.* Geo. Chester, Arlene Elizabeth. B.S.A., Cornell Univ., 1912.

Cotterman, Harold F., dean div. rural educ. and econ., Md. State Coll. Agr., College Park, Md.

Prof. agr. and agrl. educ. and dean Dept. Agr., Ohio Northern Univ., 1913–5; asst. agrl. educ., Ohio State Univ., 1916; prof. agrl. educ. and superv. secondary voc. agr. for Md., Md. State Coll. Agr., 1917—. *b.* Farmersville, O., Oct. 22, 1887; *s.* Marcus W. and Martha (Brubaker) C.; reared on farm; *m.* M. Mae Yingling, June 13, 1914. B.S.A., Ohio State Univ., 1916; M.A., Columbia Univ., 1917.

Cotton, John Storrs, agrst., Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.

Conducting range invests., Wash. Exp. Sta., 1901–4; range and farm manag. invests., U. S. Dept. Agr., 1904—. *b.* E. Woodstock, Conn., Jul. 30, 1875; *s.* John and Persis (Storrs) C.; reared in village; *m.* Ada Gertrude Chapple, Dec. 31, 1907; *c.* Jane Catherine, John, Elisabeth Storrs. B.S., Union Coll., 1897; M.S.A., Wash. State Coll., 1904.

Coulter, John Lee, dean Coll. Agr. and dir. Exp. Sta., W. Va. Univ., Morgantown, W. Va.

Asst. prof. rural econ., Univ. Minn., 1908–10; chief agrl. census, U. S. Census Bur., 1910–4; prof. rural econ., Knapp Sch. Country Life, Nashville, Tenn., 1914–5; present position, 1915—. Del. Inter. Inst. Agr., Rome; Rural Credits Comn. to Europe, 1913. Mem. Bd. Dirs., Nat. Agrl. Organization Soc. *Auth.:* Cooperation Among Farmers, 1911. *b.* Mallory, Minn., Apr. 16, 1881; *s.* John and Katherine (McVeety) C.; reared on farm; *m.* Phoebe Frost, Sept. 23, 1911; *c.* John Lee Jr., Kirkley Schley. A.B., Univ. N. D., 1904; A.M., 1905; Ph.D., Univ. Wis., 1908. Phi Beta Kappa.

Coupe, James Francis, co. agrl. agt., Carroll, Ia.

Agt. Thurston Co., Neb., 1913–5; live-stock fieldman, Twentieth Century Farmer, Omaha, 1915–7; farm bur. organizer, Neb., Sept. 1917–Feb. 1918; present position, 1918— .*b.* Falls City, Neb., Aug. 30, 1886; *s.* Richard A. and Mary M. (King) C.; reared on farm; *m.* Mary A. Ballengee, Apr. 12, 1915. B.S., Univ. Neb., 1909. Alpha Zeta.

Cowell, Arthur Westcott, lands. arch., prof. lands. design, Penn. State Coll., State College, Pa.

b. Auburn, N. Y., Apr. 30, 1878; *s.* Willard Gould and Jennie (Fisher) C.; reared in city; *m.* Sophie Harriet Lyndon, 1907; *c.* Jane Augusta, David Lyndon. B.S.A., Cornell Univ. Alpha Zeta.

Cowgill, Helen Julia, superv. girls' club work, Ore. Agr. Coll., Corvallis, Ore.

Teach. dom. sci., Harney Co. high-sch., 1913–4; present position, 1914—. *b.* Springfield, Ill., Dec. 1, 1881; *d.* Wm. C. and Caroline M. (Etter) C.; reared in city. B.S., Ore. Agr. Coll., 1913.

Cowles, Anna Bryant, state club leader for girls, Mich. Agr. Coll., E. Lansing, Mich.

Ext. dept. home econ., Mich. Agr. Coll., 1915–6; state club leader for girls, 1916—. *b.* Lansing, Mich., Oct. 22, 1893; *d.* Truman A. and Carrie (Whitehouse) C.; reared in city. B.S., Mich. Agr. Coll., 1915. Omicron Nu.

Cox, Henry Joseph, meteorologist in chg. North Central Forecast Distr. of Weather Bur., Federal Bldg., Chicago, Ill.

Prof. meteorology, Norwich Univ., Northfield, Vt., 1886–8; connected with U. S. Weather Bur. since 1884. In chg. special field researches, cranberry marshes, 1906–10; thunder bolts on Carolina mountain slopes, 1912–8. Traveled in Europe inspecting meteorological observatories, 1906–7. *Auth.:* Weather and Climate of Chicago, 1914; Weather Forecasting in U. S., 1916. *b.* Newton, Mass., Apr. 5, 1863; *s.* Thos. and Hannah (Perkins) C.; reared in city; *m.* Mary Cavanaugh, Sept. 8, 1887; *c.* Harry P., Arthur C., Paul G. A.B. Harvard Univ., 1884; M.A. Norwich Univ., 1887; D.Sc., 1914. Theta Chi.

Cox, Herbert Randolph, co. agrl. agt., Berlin, N. J.

Farming in O., 1905–7; Off. Farm Manag., U. S. Dept. Agr., 1907–15; assoc. ed., Country Gentleman, 1915–7; present position, 1917—. *b.* Canton, O., Oct. 28, 1882; reared in town and on farm. B.S.A., Cornell Univ., 1905; M.S.A., 1909. Beta Theta Pi.

Crabb, George Arthur, junior prof. agron., Univ. Ga., Athens, Ga.

Instr. soil tech., Cornell Univ., 1907–10; Bur. Soils, U. S. Dept. Agr., 1910–3; present position, 1913—. *b.* Allen Co., O., Aug. 18, 1882; *s.* Nathan T. and Amelia (Bowyer) C.; reared on farm; *m.* Mary Clement Shepperson, Sept. 28, 1908; *c.* Anna Elizabeth, Geo. A. Jr., Mary Frances. B.S.A., Ohio State Univ., 1907. Alpha Zeta.

Craig, Charles P., agrl. organizer and administrator, Duluth, Minn.

Developed Jean-Duluth Farms, Duluth. Pres. Minn. Live-Stock Breeders' Assoc., 5 yrs.; dir. Minn. State Agrl. Soc., 7 yrs., pres. 2 yrs.; manag. Minn. State Fair, 7 yrs., pres. 2 yrs. *b.* Clarion Co., Pa., Jul. 4, 1858; *s.* W. T. and Katherine (Patton) C.; reared on farm; *m.* Florence Cameron; *c.* Margaret Patton. A.B., Lafayette Coll., 1883; A.M., 1886; LL.B., Univ. Penn., 1886. Delta Kappa Epsilon.

Craig, Stephen James, co. agrl. agt., Prophetstown, Ill.

Ill. State Soil Survey, 2 yrs.; traveled 2 yrs. on seed and soil surveys; co. agt., Crown Point, Ind., 4 yrs.; agt. Whiteside Co., Ill., 1918—; seed corn administrator, Ill. State Council Defense, Chicago, 1918—. *b.* Wilmington, Ill., Jan. 16, 1882; *s.* James and Minerva (Rockwell) C.; reared on farm; *m.* Ruth Jackson, Oct. 16, 1912; *c.* James J., Harold J., Ruth J. B.S. Univ. Ill., 1905; M.S.A., Cornell Univ., 1908.

Crandall, Benjamin Ray, princ. Holtville Union High-Sch. Distr., Holtville, Calif.

Princ. schs., Hammond, La., 1889–1902; supt. schs., Rawlins, Wyo., 1902–7; supt. schs., Idaho Falls, Ida., 1907–15; present position, 1915—. Pres. Ida. State Teach. Assoc., 1912–3. Instr. in agr., asst. emergency co. club leader. *b.* Andover, N. Y., Dec. 31, 1875; *s.* Sherman G. and Leonora (Wood) C.; reared on farm; *m.* Matilda Fogg, Apr. 12, 1900; *c.* Burton Benjamin. B.S., Alfred Univ., 1899; B.Ped., Univ. Wyo., 1905; A.M., Univ. Denver, 1905; D.Ped., Alfred Univ., 1911; Ph.D., Univ. Denver, 1915.

Cranefield, Frederic, sec. Wis. State Hort. Soc., Madison, Wis.

Instr. hort., Univ. Wis., 1897–1904. *Ed.,* Wisconsin Horticulture. *b.* near Madison, Wis., Jul. 23, 1865; *s.* James and Maria (Tipple) C.; reared on farm; *m.* Laura Hinriche, Dec. 5, 1894; *c.* Marian Chas., Paul Frederic, Harold Alfred, Laura Edith.

Crawford, Nelson Antrim, head dept. ind journalism and printing, Kans. State Agr Coll., Manhattan, Kans.

Teach. English, Kans. State Agr. Coll., 1910–4; present position, 1914—. Dir. publicity, Kans. Council of Defense, 1917—; dir. publicity, U. S. Food Administration in Kans., 1917. Vice-pres. Am. Assoc. Agrl. Coll .Editors, 1916–7, pres., 1917–8. In daily newspaper work, 1906–9; manag. ed., The Kans. Industrialist, 1914—; ed. The Kans. Churchman,

1916–8; assoc. ed., The Midland, 1917—. *b.* Miller, S. D.; *s.* N. A. and Fanny (Vandercook) C. A.B., State Univ. Ia., 1910; A.M., Univ. Kans., 1914. Sigma Delta Chi; Phi Kappa Phi.

Creelman, George Christie, pres. Ont. Agr. Coll., Guelph, Ont.

Prof. biol., Miss. A. & M. Coll., 1889–97; pres. Ont. Agr. Coll., 1904—; comnr. agr., Ont., 1917—. Del. to Inter. Inst. at Rome, 1907; traveled in Europe, Asia, Hawaii, New Zealand, Australia, Philippines. Sec. Am. Assoc. of Farmer's Inst. Workers, 1900–6; pres., 1908. *b.* Collingwood, Ont., May 9, 1869; *s.* James R. and Isabel (Patterson) C.; reared on farm; *m.* Ada Mills, Sept. 8, 1892; *c.* James, Louise, Margaret, Ross, Donald. B.S.A., Toronto Univ., 1888; Miss. A. & M. Coll., 1895; LL.D., McMaster Univ., Toronto, 1910.

[**Cresswell, C. F.,** p. 310.

Cribbs, Charles C., minister, R. D. 1, Falls Creek, Pa.

Teach. hist., Elders Ridge Acad., 2 yrs.; princ. schs., Homer City, 1 yr.; pastor E. Butler Presbyterian church, 2 yrs.; Beechwood, 5 yrs. Adv. mem. Rural Com. of Pa. State Sunday Sch. Assoc. Specially interested in rural problems. *b.* Clarksburg, Pa., Nov. 8, 1880; *s.* Armor P. and M. Ella (Marshall) C.; reared on farm; *m.* Cecil A. Stewart, June 7, 1911; *c.* Mary Elizabeth, Marjorie Cecil, Mildred Josephine. A.B., Grove City Coll., 1908; A.M., 1911.

Crider, Franklin Jacob, prof. hort., Univ. Ariz. and hort., Exp. Sta., Tucson, Ariz.

Instr. hort., Clemson Agr. Coll., 1908–9; asst. prof. hort., N. C. A. & M. Coll., 1910–3; assoc. prof. hort., Clemson Agr. Coll., 1913–8; present position, 1918—. *b.* St. Matthews, S. C., Dec. 1, 1883; *s.* Lawrence E. and Georgella (Hay) C.; reared on farm; *m.* Charlotte Ellen Nash, Dec. 25, 1911; *c.* Dorothy Ellen. B.S., Clemson Agr. Coll., 1908; M.S., Univ. Minn., 1910. Alpha Zeta.

Crittenden, Lee Wright, co. agrl. agt., New Brunswick, N. J.

Instr. agr., Cortland Normal Sch., 1913–7; Chamberlain Inst., Randolph, N. Y., 1917–8. *b.* Oswayo, Pa., Jul. 1, 1884; *s.* Shubel Edgar and Ida Viola (Rowlee) C.; reared on farm; *m.* Mildred Maria Sliter, Aug. 16, 1916; *c.* Chas. Edgar. B.S., Cornell Univ., 1913.

Crocheron, Bertram Hanford, assoc. prof. ext., state leader, Univ. Calif., Berkeley, Calif.

Princ. agrl. high-sch., Baltimore Co., Md., 1909–13; present position, 1913—. *b.* N. J., May 21, 1882; *s.* David E. and Flora V. (Hanford) C.; reared in country. B.S.A., Cornell Univ., 1908; M.S.A., 1909. Alpha Zeta.

Crofoot, Herman K., co. agrl. agt., Olean, N. Y.

b. Herkimer Co., N. Y., May 18, 1886; *s.* Henry A. and Marrietta (Kilts) C.; reared on farm; *m.* Grace Fitts, 1916; *c.* Henry A., Mariam H. B.S., Cornell Univ., 1912.

Cron, Alexander B., sci. asst., U. S. Dept. Agr., Chillicothe, Tex.

Specialist in alfalfa culture, U. S. Dept. Agr., 1908–13; asst. in field stas., Amarillo, Tex., 1913–7; in chg. sta., Chillicothe, 1918—. *b.* Augusta, Kans., Jan. 4, 1883; *s.* A. G. and Emma F. (Womer) C.; reared on farm; *m.* Bessie Minerva Nicolet, Dec. 7, 1910; *c.* Ralph Nicolet, Lawrence Everett, Minerva Marie. B.S., Kans. State Agr. Coll., 1908.

Crosby, Cyrus Richard, prof. ent. ext., Cornell Univ., Ithaca, N. Y.

Asst. ent., Univ. Mo., 1904–5; ent. invest., Cornell Exp. Sta., 1906–9; asst. prof., Cornell Univ., 1909–13; prof. ext. ent., 1913—. *Auth.:* (with Slingerland) Manual of Fruit Insects, 1914; (with Leonard) Manual of Vegetable-Garden Insects, 1918. *b.* Penn Yan, N. Y., Jan. 9, 1879; *s.* Isaac and Drusilla (Eddy) C.; reared on farm; *m.* Nellie G. Heck, Dec. 16, 1905. A.B., Cornell Univ., 1905.

Crosby, Dick Jay, prof. ext. teach., Cornell Univ., Ithaca, N. Y.

Instr. English, Mich. Agr. Coll., 1893–9; asst. agr., U. S. Dept. Agr., 1901–5; specialist in agrl. educ., U. S. Dept. Agr., 1905—; farmer and part-time ext. teach., Cornell Univ., 1913–5; present position, 1915—. *b.* Elbridge, Mich., Oct. 2, 1866; *s.* Daniel Way and Agnes (Colestock) C.; reared on farm; *m.* Mary Lillian Wheeler, 1902; 2d, Mrs. Addie J. Irwin, 1914; *c.* Ruth, Alan

Wheeler, Richard Collier. B.S., Mich. Agr. Coll., 1893; M.S., 1901.

Crosby, Matt A., agrst., Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.
b. Hart, Mich., Aug. 2, 1875; *s.* Daniel Way and Agnes (Colestock) C.; reared on farm. B.S., Mich. Agr. Coll., 1902. Alpha Zeta.

Cross, Gurnee G., state co. sec., rural work, Y. M. C. A., 603 A. O. U. W. Bldg., Little Rock, Ark.
b. Ind., Sept. 24, 1883; *s.* Benjamin Franklin and Missouri (Watts) C.; reared on farm; *m.* Delia Bennett, June 5, 1911. B.A., Kans. Univ., 1911; Bach. of Assoc., Sci., Y. M. C. A. Coll., Chicago, 1913.

Cross, Lewis Josephus, prof. agrl. chem., Cornell Univ., Ithaca, N. Y.
Asst. prof. agrl. chem., Cornell Univ., 1912–4; prof., 1914—. *Ed.*, The Cornell Chemist, 1912–4. *b.* Hoosick Falls, N. Y., Oct. 15, 1874; *s.* Waite J. and Hannah M. (Scriven) C.; reared on farm; *m.* Jessie B. Kerr, Dec. 23, 1915; *c.* Margaret E. A.B., Cornell Univ., 1909; Ph.D., 1912. Sigma Xi; Gamma Alpha.

Crossman, Paul Stevens, co. agrl. agt., Smethport, Pa.
Asst. farm manag., U. S. Dept. Agr., 1915; food emergency agt., 1917. Farm operator. *b.* Hamilton, Pa., Dec. 18, 1890; *s.* Everett Lincoln and Mary Alice (Croasmun) C.; reared on farm; *m.* June 15, 1918. B.S., Penn. State Coll., 1917. Alpha Zeta; Phi Kappa Phi.

Crossman, Samuel Sutton, ent. asst., Bur. Ent., U. S. Dept. Agr., Melrose Highlands, Mass.
b. Needham, Mass., May 30, 1886; *s.* Thos. James and Eliza Ann (Sutton) C.; reared in town; *m.* Pauline Haskell, Dec. 30, 1912; *c.* Faith Sutton, Margaret, Ruth. B.Sc., Mass. Agr. Coll., 1909.

Crouch, Harry Ensign, co. agrl. agt., Court House, Albany, N. Y.
Manag. Univ. Ill. dairy farm, 11 yrs.; manag. dairy farm, Ann Arbor, Mich., 3 yrs. *b.* Cohocton, N. Y., June 10, 1878; *s.* Joel M. and Rose Ella (Slayton) C.; reared on farm; *m.* Mary J. Pierce, Dec. 24, 1902; *c.* Mary J., James E., Francis Richard. Studied Cornell Univ., 3 yrs. Gamma Alpha.

Cruess, William Vere, asst. prof. zymology, Univ. Calif., Berkeley, Calif.
Asst. zymology, Univ. Calif., 1911–3; asst. prof., 1913—. Specialty, utilization of waste fruits and vegetables. Farmer, 8 yrs. *b.* San Miguel, Calif., Aug. 9, 1886; *s.* Wm. V. and Lucy M. (Withrow) C.; reared on farm. B.S., Univ. Calif., 1911. Sigma Xi; Sigma Phi; Alpha Chi Sigma; Phi Lambda Upsilon.

Cruickshank, Robert Bacon, asst. prof. hort., Ohio State Univ., Columbus, O.
Chg. 1200-acre orchard, Ore., 1910–2. Sec. O. State Hort. Soc. *b.* Syracuse, N. Y., Oct. 12, 1885; *s.* Robt. and Margaret (Bacon) C.; reared in city; *m.* Marion E. Coburn, Mar. 4, 1912; *c.* Mary Adeline, Robt. Jr. B.S., Univ. Me., 1910. Beta Theta Pi; Alpha Zeta.

Culley, Frank Hamilton, prof. lands. arch., Ia. State Coll., Ames, Ia.
Asst. prof. lands. gard., Ia. State Coll., 1914–5; assoc. prof., 1915–8; prof. lands. arch. 1918—. Mem. Country Planning Com., Am. Civic Assoc. *b.* Fort Dodge, Ia., Aug. 7, 1888; *s.* Charley Hamilton and Ida May (Keeler) C.; reared in town. B.S., Mass. Agr. Coll., 1913; Mast. Lands. Arch., Harvard Univ., 1914.

Cumming, Melville, princ. Coll. of Agr., Truro, N. S.
Asst. prof. an. husb., Ont. Agr. Coll., 1901–5; sec. for agr. and princ. Coll. Agr., Province of N. S., 1907—. Traveled in Great Britain and Europe studying and purchasing live-stock. *b.* Stellarton, N. S., Jan. 5, 1876; *s.* Thomas and Matilda (McNair) C.; reared in town and country; *m.* Mary Alice Archibald, June 13, 1905; *c.* Jean, Alison Archibald, Mary Rutherford, Melville Erskine. B.A., Dalhousie Univ., Halifax, 1897; B.S.A., Ia. State Coll., 1900; B.S.A., Toronto Univ., 1901.

Cummings, Marshall Baxter, prof. hort., Univ. Vt., Burlington, Vt.
Sec. Vt. Hort. Soc. *b.* N. Thetford, Vt., Dec. 2, 1876; *s.* H. P. and Alpha Maria (Baxter) C.; reared on farm; *m.* Lura Alice Bugbee, Aug. 24, 1910 ; *c.* Preston

Curtis. B.S., Univ. Vt., 1901; M.S., Univ. Me., 1904; Ph.D., Cornell Univ., 1909. Sigma Xi; Alpha Zeta; Gamma Alpha.

Cunningham, John Ferguson, ed. Ohio Farmer, Cleveland, O.

Instr. hort. and for., Ohio State Univ., 1898–9; present position, 1899—. Mem. Bd. of Trustees, Ohio State Univ. Farm operator. *Ed.*, Journal Columbus Hort. Soc. Co-founder Agricultural Student Magazine, 1894; ed., 1894–8. *b.* Afton, Ia., Feb. 4, 1877; *s.* Robt. Henry and Virginia Ross (Loy) C.; reared in country; *m.* Edna Mumper, Oct. 30, 1907; *c.* John F. Jr., Richard M. B.Sc., Ohio State Univ., 1897; M.Sc., 1899. Sigma Xi; Phi Gamma Delta; Alpha Zeta (co-founder).

Cunningham, Omer Cole, dairy husb., Bur. An. Ind., U. S. Dept. Agr., Washington, D. C.

Prof. dairying and an. husb., Winona Coll. Agr., Ind., 1906–9; instr. dairying, Ohio State Univ., 1909–11; asst. prof., 1911–8; present position, 1918—. *b.* Switzerland Co., Ind., Apr. 15, 1882; *s.* Jonathan R. and Margaret O. (Cole) C.; reared on farm; *m.* Anna Blanche Eaton, Jul. 2, 1908; *c.* Jonathan R. B.S.A., Purdue Univ., 1906.

Cunningham, Walter Stanley, asst. prof. an. husb., Univ. Ariz., Tucson, Ariz.

Asst. an. husb., N. Mex. A. & M. Coll., 1912–4; present position, 1914—. *b.* Ind., Mar. 21, 1885; *s.* J. R. and Margaret O. (Cole) C.; reared on farm; *m.* Clara M. Schroeder, Aug. 26, 1915. B.S.A., Purdue Univ., 1909.

Curran, George Bryan, agrl. rep., Napanee, Ont.

Ed. Farm Crops, 1908–9; farmer, 1909–12; present position, 1912—. Sec. Lennox and Addington Farmers' Buying and Selling Bd.; sec. Canada Rhode Island Red Club. *b.* Orillia, Ont., Apr. 27, 1886; *s.* Geo. and Martha (Bates) C.; reared on farm; *m.* Josephine Edna Carson, Sept., 1913; *c.* Josephine Mary. B.S.A., Ont. Agr. Coll., 1908.

Currey, Hiram Meyrick, asst. prof. agron., Ida. Tech. Inst., Pocatello, Ida.

With U. S. Bur. Markets, 1917–8. *b.* Cannelton, Ind., Oct. 10, 1887; *s.* Hiram Meyrick and Fannie (Smith) C.; reared on farm. B.S.A., Ore. Agr. Coll., 1915; grad. student, Cornell Univ., 1916–7. Sigma Phi Epsilon; Gamma Sigma Delta.

Currier, Edwin L., prof. farm manag. and head dept. of Exp. Sta., Mont. Agr. Coll., Bozeman, Mont.

b. St. Edward, Neb., Oct. 24, 1887; *s.* John W. and Adella (Lovejoy) C.; reared on farm; *m.* Bernice Chambers, June 4, 1914; *c.* Helen, Merrill Chambers. B.S., Univ. Neb., 1912.

Curry, Arthur David, distr. dem. agt., Stratton, Neb.

b. David City, Neb., Jan. 28, 1878; *s.* John and Jane (Harris) C.; reared on farm; *m.* Maude Holston, Apr. 3, 1907; *c.* Gilbert, Leah.

Curtis, Franklin Richards, co. agrl. agt., Demopolis, Ala.

Agt. Craighead Co., Ark., 1913–4; agt. Marengo and Sumter Cos., Ala., 1914–6; agt. Marengo, Hale and Perry Cos., 1916–7; dir. Canebrake Agr. Exp. Sta., Uniontown, Ala., 1917; agt. Marengo Co., 1918—. *b.* Shelby Co., Ala. Jan. 4, 1894; *s.* Joseph Franklin and Kate (Richards) C.; reared in small town; *m.* Anne Beall McCants, Jan. 25, 1918. B.S., Ala. Poly. Inst., 1912. Lamda Chi Alpha.

Curtis, Harry Pennybacker, co. agrl. agt., Sutton, W. Va.

Instr. sci., high-sch., New Providence, Ia., 1915–6; agt. Braxton Co., 1916—. *b.* Little Hocking, O., Mar. 7, 1891; *s.* A. L. and Mary (Pennybacker) C.; reared on farm. B.S.A., Ohio State Univ., 1915.

Curtis, Henry S., writer and lect., Olivet, Mich.

Teach. English, N. Y. City high-sch., 1899–1905; general dir. playgrounds, N. Y. City, summer, 1898, 1901; lect. Columbia Univ., summer, 1893; lect. World's Fair, summer, 1894; superv. playgrounds, Distr. Columbia, 1905–9; sec. Playground Assoc. of Am., 1906–9. Y. M. C. A. recreation work in France. *Auth.:* Play and Recreation for the Open Country, 1904; Education Through Play, 1915; The Practical Conduct of Play, 1915; The Play Movement and its

Significance, 1917; Recreation for Teachers, 1918. Traveled in Europe and Porto Rico. *b.* Olivet, Mich., Feb. 9, 1870; *s.* Samuel and Mary (Stoddard) C.; reared on farm.; *m.* Charlotte Doremus Scudder, Nov. 25, 1902; *c.* Henry Stoddard, Bessie Scudder, Elnora Charlotte. A.B., Olivet Coll., 1894; A.B., Yale Univ., 1895; Ph.D., Clark Univ., 1898. Phi Alpha Pi.

Curtis, John Gerrit, co. agrl. agt., White Plains, N. Y.

Lect. N. Y. State farmers' insts., 1904–15; also N. J. and W. Va. insts.; agt. Westchester Co., 1915—. Chg. Chilean govt. exhibit fert. materials, World's Fair, 1893; U. S. govt. exhibit, St. Louis Expos., 1904. Invest. phosphate mines of S. C., Fla., Tenn., Canada. Farm operator. *b.* Rochester, N. Y., Aug. 8, 1870; *s.* Geo. M. and Mary E. (Campbell) C.; reared on farm; *m.* Martha Elizabeth Heermans, June 2, 1906. Grad. Genesee Wesleyan Sem., Lima, N. Y., 1890.

Curtis, Ralph Wright, prof. lands. art, Cornell Univ., Ithaca, N. Y.

Asst. supt. parks, Boston, 1906–9; asst. supt. Arnold Arboretum, Mass., 1909–12; with Warren H. Manning, lands. designer, 1912; asst. prof. lands. art, Cornell Univ., 1912–5; prof., 1915—. *b.* Burlington, Wis., Dec. 8, 1877; *s.* Chas. Burritt and Mira (Vail) C.; reared in town; *m.* Alison M. Pettigrew, Sept. 3, 1910; *c.* Roger Sherman. B.S.A., Cornell Univ., 1901; M.S.A., 1905. Alpha Zeta; Gamma Alpha.

Curtiss, Charles F., dean and dir. Div. Agr., Ia. State Coll., Ames, Ia.

Dir. Ia. State Bd. Agr.; dir. and exec. com., Inter. Live-Stock Expos.; pres. Am. Berkshire Assoc.; ex-pres. Am. Shropshire Assoc.; dir. Percheron Soc. of Am.; dir. and exec. com., Nat. Soc. Live-Stock Record Assoc. Mem. horse-breeding and meat invest. com., U. S. Dept. Agr. Special invest. for U. S. Dept. Agr., Great Britain and Mexico. Consulting ed., Agricultural Digest. Farm operator. *b.* Boral, Ill., Dec. 12, 1863; *s.* Franklin and Margaret (Schmitz)C.; reared on farm; *m.* Olive Wilson, Feb. 15, 1893; *c.* Ruth, Edith, Helen. B.S., Ia. State Coll., 1887; M.S., 1894; D.Sc., Mich. Agr. Coll., 1907. Delta Tau Delta.

Cutler, Garnet Homer, prof. field husb., Univ. Alberta, Edmonton, Alta.

Lect. cereal husb., McDonald Coll., McGill Univ., 1909–12; prof. cereal husb., Univ. Sask., 1913–6; present position, 1917—. Mem. Provincial Seed Bd. of Alta. *b.* Arkona, Ont., June 12, 1882; *s.* Albert Elgin and Annie Sarah (Belton) C.; reared on farm; *m.* Gertrude Campbell, June 6, 1911; *c.* Mabelle Gertrude. B.S.A., Toronto Univ., 1909.

D

Dacy, Arthur Lincoln, assoc. prof. hort. and assoc. hort. Exp. Sta., W. Va. Univ., Morgantown, W. Va.

Asst. hort., W. Va. Exp. Sta., 1908–12; present position, 1912—. *b.* S. Boston, Mass., Nov. 10, 1875; *s.* Geo. L. and Sarah A. (Kimball) D.; *m.* Amelia Muir Bachmann, Aug, 16, 1905; *c.* Geo. Alden, Muriel Louise, Earle Bachmann, Arthur Kimball. B.S.A., Mass. Agr. Coll., 1902.

Dadant, Camille Pierre, ed. American Bee Journal, Hamilton, Ill.

Beekeeper, 1868—. Del. to Inter. Beekeepers' Assoc., Paris, 1900. *Auth.:* Hive and Honey Bee, 1907; A Bee Primer, 1914; First Lessons in Beekeeping, 1917. *b.* Langres, France, Apr. 6, 1851 (naturalized 1872); *s.* Chas. and Gabrielle (Parisot) D.; reared in city and country; *m.* Marię Marinelli, Nov. 1, 1875; *c.* Louisa, Valentine, Louis, Henry, Maurice, Clemence, Harriette.

Dadisman, Andrew Jackson, assoc. prof. agrl. econ. and farm manag., Univ. W. Va., Morgantown, W. Va.

Teach. rural schs., 3 yrs.; town and city schs., 5 yrs.; Off. Farm Manag., U. S. Dept. Agr., 2 yrs. Farm help specialist for W. Va., 1917—. *b.* Grafton, W. Va., Feb. 5, 1881; *s.* Newton and Lucetta (Williamson) D.; reared on farm. B.S.A., W. Va. Univ., 1914; M.S.A., Cornell Univ., 1914.

Dalrymple, William Haddock, prof. comp. med. and vet. Exp. Sta., La. State Univ., Baton Rouge, La.

Pres. U. S. Exp. Sta. Vet. Med. Assoc., 1901–2; pres. Am. Vet. Med. Assoc., 1907–8; pres. U. S. Live-Stock Sanitary Assoc., 1908–9; vice-pres. La. State Sanitary Assoc.; mem. exec. com. Nat. Live-Stock Assoc., 1902—4; former sec.

La. State Agrl. Soc. and La. Stockbreeders' Assoc.; ex-pres. La. Vet. Med. Assoc.; pres. La. Soc. of Naturalists; mem. La. State Live-Stock Sanitary Bd. Reporter on anthrax for U. S. 10th Inter. Vet. Congress, London, 1914; mem. Inter. Congress on Tuberculosis, Washington, D. C., 1908; 15th Inter. Congress on Hygiene and Demography, Washington, 1912. Fellow Glasgow Vet. Med. Soc. Traveled in S. Africa and Europe. Former ed. live-stock dept., New Orleans Picayune. *Auth.:* Veterinary Obstetrics, 1896. *b.* Stranraer, Wigtownshire, Scotland, Apr., 23, 1856 (came to Am. 1889); *s.* Thomas and Mary Eleanor (Haddock) D.; *m.* Mary Isabel Umpleby, Aug. 27, 1891; *c.* W. C. S., Mary Eleanor. M.R.C.V.S., Glasgow Vet. Coll., 1886.

Danforth, Herman W., pres. Fed. Land Bank, St. Louis, Mo.

Teller First Nat. Bank, Kankakee, Ill., 1892–5; attorney, Peoria, Ill., 1899–1907; farm manag., Washington, Ill., 1907–17; present position, 1917—. Pres. Farmers' Grain Dealers' Assoc., 2 yrs.; pres. Nat. Council Farmers' Coop. Assocs., 5 yrs.; pres. Tagewell Co. Farm Bur., 5 yrs.; pres. Ill. Agrl. Assoc., 1 yr. Traveled in Europe. *b.* Danforth, Ill., June 15, 1872; *s.* Henry R. and Mary (Wenger) D.; reared in town; *m.* Louise Leonard, Oct. 18, 1905; *c.* Mary Louise, Elizabeth, Herman L. LL.B., Univ. Mich., 1899.

Danielson, Edward Roseman, sec. Neb. Bd. of Agr., Lincoln, Neb.

b. Missouri Valley, Ia., Dec. 30, 1881; *s.* John A. and Eva (Roseman) D.; reared on farm; *m.* Mary Maud Barnard, Oct. 21, 1903; 2d, Edna Maud Bruner, Sept. 14, 1908; *c.* Helen M., John Arthur, Robt. Bruce.

Darche, John H., strawberry-grower, Parkville, Mo.

Assoc. ed. on hort., Missouri and Kansas Farmer, 8 yrs. *b.* Ont., Canada, Feb. 6, 1840; *s.* Peter Darcher and Mary (Brown) D.; reared in village.

Darling, Floyd Nelson, co. agrl. agt., Keene, N. H.

Instr. voc. agr., high-sch., Walton, N. Y., 1912–3; present position, 1913—. Chm. Com. on Revision of Syllabus Voc. Agr., N. Y. State, 1912. *b.* Coudersport, Pa., Aug. 12, 1885; *s.* Thaddeus S. and Mary L. (Teuscher) D.; reared on farm; *m.* Margaret P. Stanion, Dec., 1910; *c.* Virginia N. B.S., Cornell Univ., 1910.

Darrow, George McMillan, sci. asst., Bur. Plant Ind., Washington, D. C.

b. Springfield, Vt., Feb. 2, 1889; *s.* Guy Calvin and Maria (McMillan) D.; reared on farm. A.B., Middlebury Coll., 1910; A.M., Cornell Univ., 1911. Kappa Delta Rho.

Darrow, William Hinds, sci. asst., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Instr. hort., Univ. Me., 1912–3; practical orchard work, Va., Md., N. Y., Vt., 1913–6; supt. schs., Waterbury, Vt., 1916–7; present position, 1917—. *b.* Springfield, Vt., May 7, 1890; *s.* Guy C. and Maria (McMillan) D.; reared on farm. A.B., Middlebury Coll., 1911; A.M., Cornell Univ., 1912; M.S., Univ. Me., 1913. Kappa Delta Rho.

Darst, Williard Holden, asst. prof. agron., Penn. State Coll., State College, Pa.

b. Covington, O., Nov. 7, 1884; *s.* D. M. and Addie (Darner) D.; reared on farm; *m.* Janet Caley, 1913; *c.* Williard H. Jr. B.S.A., Ohio State Univ., 1910.

Davenport, Eugene, dean Coll. Agr., Univ. Ill., Urbana, Ill.

Prof. agr., Mich. Agr. Coll., 1889–91; pres. Collegio Agronomica, Sao Paulo, Brazil, 1891–2; dean Coll. Agr. and dir. Exp. Sta., Univ. Ill., 1895—. Fellow A.A.A.S. Mem. Authors' Club, London, England. *Auth.:* Principles of Breeding, 1907; Education for Efficiency, 1909; Domesticated Animals and Plants, 1910. *b.* Woodland, Mich., June 20, 1856; *s.* George Martin and Esther (Sutton) D.; reared on farm; *m.* Emma Jane Coats, Nov. 2, 1881; *c.* Dorothy, Margaret. B.S., Mich. Agr. Coll., 1878; M.Agr., 1895; LL.D., 1907. Delta Tau Delta.

Davidson, Gabriel, general manag. The Jewish Agrl. and Ind. Aid Soc., 174 Second Ave., New York City.

Mem. Adv. Com., Fed. of Jewish Farmers of Am. *b.* New York City, Jan. 23, 1879; *s.* David and Hannah (Gerechter) D.; reared in city; *m* nna Perlowitz, June 26, 1910; *c.* Hannah Adele. LL.B., N. Y. Law Sch., 1900; LL.M., N. Y. Univ., 1901.

Davidson, Jay Brownlee, prof. agrl. engin., Univ. Calif., Davis, Calif.

Adj. prof. farm mech., Univ. Neb., 1905–6; prof. agrl. engin., Ia. State Coll., 1906–15; present position, 1915—. *Auth.:* (with Chase) Farm Machinery and Farm Motors, 1908; Agricultural Engineering, 1913. *b.* Douglas, Neb., Feb. 15, 1880; *s.* James H. and Margaret (Dixon) D.; reared on farm; *m.* Jennie Baldridge; *c.* Margaret E., Ethel B., Helen M. B.S., M.E., Univ. Neb., 1904; A.E., 1914. Phi Beta Kappa; Sigma Xi; Sigma Tau; Tau Beta Pi; Alpha Zeta.

Davidson, Sidney Harold, sci. asst., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

In U. S. Army, 1918—. *b.* Wadena, Minn., Feb. 23, 1896; *s.* Morris and Emma (Katzky) D. B.S., Univ. Calif., 1917. Alpha Zeta.

Davis, Arthur Grant, co. agrl. agt., Concord, N. H.

Instr. agr., high-sch., Hopkinton, N. H., 1913–4; princ. and instr. agr., high-sch., Antrim, 1914; co. agt., 1915—. *b.* E. Jaffrey, N. H., Aug. 17, 1887; *s.* Chas. B. and Clara E. (Ames) C.; reared on farm; *m.* Cecile F. Livingstone, June 29, 1912; *c.* Grant L., Robt. C., Beverly C. B.S., N. H. A.&M. Coll., 1912. Gamma Theta.

Davis, Boothe Colwell, pres. Alfred Univ., Alfred, N. Y. (with which a state school of agriculture is affiliated).

Ordained Baptist minister, 1893; pastor, Alfred, N. Y., 1893–5; prof. philosophy and ethics, Alfred Univ., 1895—; pres., 1908—. *b.* Jane Lew, W. Va., Jul. 12, 1863; *s.* Samuel D. and Elizabeth (Fitz-Randolph) D.; reared on farm; *m.* Estelle W. Hoffman, 1893; *c.* Stanton H., Elizabeth R., Boothe C. Jr. A.B., Alfred Univ., 1890; B.D., Yale Univ., 1893; Ph.D., Nat. Normal Univ., 1897; LL.D., Alfred Univ., 1915.

Davis, Chester Charles, ed. Montana Farmer, Great Falls, Mont.

b. Dallas Co., Ia., Nov. 17, 1887; *s.* Wm. Highland and Eva Elizabeth (Johnson) D.; reared on farm; *m.* Helen Gail Smith, Aug. 14, 1913; *c.* Chester Smith. B.A., Grinnell Coll., Ia., 1911.

Davis, Edward Gorton, prof. lands. arch., Cornell Univ., Ithaca, N. Y.

Practical lands. arch., 1904–11, at Denison Univ., 1903–5, with Townsend and Fleming, Buffalo, 1905–11; present position, 1911—. Traveled in England, France and U. S. studying residence plans. *b.* Cincinnati, O., 1880; *s.* Geo. F. and Lucy (Gorton) D.; reared in city and country place; *m.* Marion Briggs, 1908; *c.* Dorothea, E. Gorton Jr. B.S., Denison Univ., 1905. Beta Theta Pi.

Davis, Helen Lee, prof. dom. art, Ore. Agr. Coll., Corvallis, Ore.

Math. computer, astronomical dept., Columbia Univ., 1899–1908; instr. home econ., Univ. Neb., 1910–2; asst. prof., 1912–7; assoc. prof. dom. art, Ore. Agr. Coll., 1917–8; prof., 1918–. *b.* Moultonboro, N. H. Sept. 22, 1877; *d.* Eleazer A. and Mary A. (Rolfe) D.; reared on farm. A.B., Vassar Coll., 1899; B.S., Columbia Univ., 1910.Phi Beta Kappa; Omicron Nu.

Davis, Irving Gilman, co. agt. leader, Conn. Agr. Coll., Storrs, Conn.

Instr., Brimfield Voc. Agr. Sch., Brimfield, Mass., 1912–4; asst. co. agt. leader, Conn. Agr. Coll., 1915–7; leader, 1917—. *b.* Poland, Me., Apr. 25, 1885; *s.* John Gilman and Juniata (Dunn) D.; *m.* Alice Sawin, Aug. 18, 1914; *c.* Elizabeth Valentine, Irving G. Jr. A.B., Bates Coll., 1906.

Davis, John June, chg. U. S. Ent. Lab., W. LaFayette, Ind.

Asst. to state ent. of Ill., 1907–11; with U. S. Dept. Agr., 1911—. *b.* Centralia, Ill., Oct. 9, 1885; *s.* John L. and Mary C. (Marsh) D.; reared in city; *m.* Pearle E. Taylor, Oct. 27, 1909. B.S., Univ. Ill., 1907. Sigma Xi; Alpha Tau Omega.

Davis, Kary Cadmus, prof. agr., George Peabody Coll. for Teachers, Nashville, Tenn.

Princ. state high-sch., Austin, Minn., 1892–8; teach. sci., State Normal Sch., St. Cloud, 1900–1; prof. hort., W. Va. Univ., 1901–2; princ. Dunn Co. Sch. Agr., Menomonie, Wis., 1902–7; dean State Sch. Agr., Canton, N. Y., 1907–8; prof. agron. and princ. agrl. short courses, Rutgers Coll., 1908–13; present position, 1913—. Conductor summer training schs. for teachers in Minn. and Wis.;

prof. agr., Univ. Va., summer sch., 1908–11; dir. N. J. State Summer Sch. for Teach., 1912. Lect. farmers' inst., agrl. trains, etc. Fellow A. A. A. S. Pres. Tenn. State Dairy Assoc., 1917—. *Auth.:* Productive Farming, 1911, 3d ed. 1917; Productive Plant Husbandry, 1917; School and Home Gardening, 1918; A Year of Horticulture for Normals and High Schools, 1918. *Ed.*, Lippincott's Farm Manuals, Farm Life Text Book Series. *b.* Decatur, Ill., Oct. 7, 1867; *s.* John and Martha Ann (Powell) D.; reared on farm; *m.* Fanny Elisabeth Waugh, Aug. 19, 1896; *c.* Douglas Powell, Louise. B.S., Kans. State Agr. Coll., 1891; M.S., 1894; Ph.D., Cornell Univ., 1900. Sigma Xi; Phi Beta Kappa; Phi Kappa Phi.

Davis, Leon M., asst. in marketing dairy products, Bur. Markets, U. S. Dept. Agr., Washington, D. C.
Instr. dairy ind., Univ. Calif., 1909–12; asst. prof., 1912–6; present position, 1916—. Mem. Inter. Jury of Awards, Panama-Pacific Expos., 1915; pres. W. Dairy Instrs. Assoc.; sec.-treas. Calif. Creamery Operators' Assoc. Regular contributor Pacific Dairy Review, 1911–3. *b.* Topeka, Kans., Apr. 19, 1885; *s.* Thos. J. and Stella (Kidder) D.; raised on dairy farm; *m.* Hazel Estelle Bixby, June 15, 1911; *c.* Leon Bixby, Barbara Jean. B.S., Kans. State Agr. Coll., 1909. Beta Theta Pi; Alpha Zeta.

Davis, Samuel Sylvester, co. agrl. agt., Kentland, Ind.
b. Newport, Ind., Feb. 28, 1891; *s.* J. N. and Rose (Manion) D.; reared on farm; *m.* Clara Davis, Jan. 27, 1917. B.S., Univ. Ill., 1915; M.S., 1917.

Davis, Vernon Hayes, chief O. State Bur. Markets and Marketing, Columbus, O.
Asst. hort. and for., Ohio State Univ., 1901–5; asst. prof., 1905–9; asst. prof. hort., 1909–14; prof., 1914–7; present position, 1917—. Treas. O. State Hort. Soc. Farm operator. *Auth.:* The Garden Book, 1915. *b.* Byesville, O., Mar. 7, 1877; *s.* James A. and Rachel (Gauder) D.; reared on farm; *m.* Mary E. Haskell, Aug. 6, 1907; *c.* Emily Haskell, Rachel Katherine. B.S., Ohio State Univ., 1900; M.S.A., Cornell Univ., 1901. Sigma Xi; Kappa Sigma; Alpha Zeta.

Dawley, Frank E., farmer, Fayetteville, N. Y.
Dir. N. Y. State farmers' insts., 1896–1908; trustee Cornell Univ., 1899–1904. Sec. N. Y. State Farmers' League, 1881–91; sec. State Dairymen's Assoc., 1896–1902; treas. N. Y. State Breeders' Assoc., 1904–8; sec. Cheviot Sheep Soc., 1899–1918; pres. State Agr. Soc., 1899–1902. Master Syracuse Grange, 1891–2; Fayetteville Grange, 1905–15; Onondaga Co. Grange, 1914–6. Breeder of pure-bred Holstein-Friesian cattle, Cheviot and Persian lamb fur sheep. Pres. Am. Persian Lamb Fur Sheep Registry, 1916. Awarded Gold Medal on New York State grown alfalfa hay at Panama Expos., 1916. First to make a success of raising Persian lamb fur in Am.; erected first steel frame barn in Am. in 1902; ground the first alfalfa "bran" or meal in 1899 and proved its value as compared with wheat bran as a food for milch cows. *b.* Elbridge, N. Y., Sept. 10, 1863; *s.* Wm. Walker and Charlotte A. (Lamson) D.; reared on farm; *m.* Carrie L. Barnes, June 16, 1891; *c.* Marion B., Laura A., Helen F., Catherine L., Lamson Eldred, Dorothy Jackson. Educ. Munro Collegiate Inst.

Deabler, Chaise Halle, co. agrl. agt., Angleton, Tex.
b. Xenia, Ill., Mar. 18, 1886; *s.* Geo. I. and Ida (McGregor) D.; reared in town; *m.* Etta E. Peterson, June 20, 1912; *c.* Mattie Elaine, Martha Lucille.

Dean, George Adam, prof. ent. and state ent., Kans. State Agr. Coll., Manhattan, Kans.
Ent. Kans. State Ent. Comn. Fellow Ent. Soc. of Am. Traveled in Europe to investigate handling of flour. *b.* Topeka, Kans., Apr. 19, 1873; *s.* Thos. Jackson and Harriet (Reese) D.; reared on farm; *m.* Minerva Blachly, Sept. 30, 1903; *c.* Elizabeth, Geo., Marjorie, Maurice, Dorothy. B.Sc,. Kans. State Agr. Coll., 1895; M.Sc., 1905. Sigma Xi; Phi Kappa Phi.

Dean, Henry H., prof. dairy husb., Ont. Agr. Coll., Guelph, Ont.
Chg. dairy dept., Ont. Agr. Coll., 1891—. Farm operator. *Auth.:* Canadian Dairying, 1903, 4th ed., 1914. *b.* Ont., Nov. 12, 1865; *s.* Walter and Theresa (Hahnel) D.; reared on farm; *m.* Almeda Ansley, Jul. 25, 1894. B.S.A., Ont. Agr. Coll. and Toronto Univ., 1890.

Dean, Marion Lothrup, chief div. hort., Wash. State Dept. Agr., Olympia, Wash.
Asst. instr. hort., Mich. Agr. Coll., 8 yrs.; state hort., Mont., 8 yrs.; present position, 1916—. *b.* Napoleon, Mich., June 27, 1863; *s.* Julius P. and Maria L. (Weeks) D.; reared on farm; *m.* Ida L. Smith, Jan. 28, 1872. Special student, Mich. Agr. Coll.

Dearing, Charles, asst. hort., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.
Asst. hort., Univ. Mo., 1908; instr., 1909–10; sci. asst., Bur. Plant Ind., 1910–7; asst. hort., 1918—. *b.* Wichita, Kans., Mar. 25, 1888; *s.* Geo. M. and Marion Elvira D.; reared in town. B.S.A., Univ. Mo., 1909. Sigma Xi; Alpha Zeta.

De Baun, Roscoe William, specialist in veg. growing, Ext. Div., Rutgers Coll., New Brunswick, N. J.
Truck farmer, 1911–5. Mem. exec. com., N. J. State Hort. Soc. *b.* Caldwell, N. J., Dec. 16, 1887; *s.* John Wm. and Abbie (Kimball) D.; reared on farm. B.Sc., Rutgers Coll., 1911. Chi Phi.

DeBusk, Ezra Franklin, co. agrl. agt., Orlando, Fla.
Teach. sci. and agr., Washington high-sch., Tampa, Fla., 1914–7. *b.* Walkers' Ford, Tenn., Feb. 11, 1884; *s.* James Knox and Helen (Shumate) D.; reared on farm; *m.* Eva M. Holt, June 28, 1911. B.S., Lincoln Memorial Univ., 1910.

Decker, Roy M., co. agrl. agt., Stroudsburg, Pa.
Teach. rural and graded schs., 5 yrs.; agt. Monroe Co., 1916—. *b.* Hublersburg, Pa., Aug. 20, 1888; *s.* Wm. and Emma C. (Beck) D.; reared on farm. B.S., Penn State Coll., 1916.

De Lashmutt, Floyd Silas, co. agrl. agt., Athens, O.
Ext. serv., Ohio State Univ., 1916—. *b.* Columbus, O., Aug. 18, 1889; *s.* Van B. and Anna (Simmons) D.; reared on farm. B.S.A., Ohio State Univ., 1916.

De Loach, Robert John Henderson, dir. Bur. Agrl. Research and Econ., Armour & Co., 10154 Longwood Drive, Chicago, Ill.
Bot., Ga. Exp. Sta., 1906–8; prof. cotton ind., Univ. Ga., 1908–13; dir. Ga. Exp. Sta., 1913–6; present position, 1916—. Fellow A. A. A. S. *Auth.:* Rambles with John Burroughs, 1911; Agriculture for the Schools of Georgia, 1914. *Ed.* agrl. dept., Atlanta Constitution, 1913–6. *b.* Statesboro, Ga., Dec. 21, 1873; *s.* Z. T. and Jane (Williams) D.; reared in country and village; *m.* Bessie Holland, Apr. 2, 1900; *c.* Edward, Louise, Evelyn, Julia, Helen. A.B., Univ. Ga., 1898; A.M., 1906. Sigma Chi.

Delwiche, Edmond Joseph, assoc. prof. agron. and supt. Branch Exp. Stas., Univ. Wis., Ashland, Wis.
Supt. branch stas., Univ. Wis., 1906–9; asst. prof. agron. and supt. stas., 1909–12; present position, 1913—. *b.* Orbais, Belgium, Mar. 25, 1874 (naturalized 1895)- *s.* Desire J. and Marie J. (Dethy) D.; reared on farm; *m.* Alice J. Collin, 1899; *c.* Mary A., Anthony J., Edmond D.; Joseph J., Francis R., Richard O. B.S.A., Univ. Wis., 1906; M.S., 1909. Alpha, Zeta.

Deming, William C., agrl. ed., Cheyenne, Wyo.
Ed., Daily Tribune, Warren, O., 1894–1901; Wyo. Daily Tribune, 1901—; Wyo. Stockman-Farmer, 1913—. Mem. Wyo. Legislature, 1902–3. Receiver U. S. Land Off., Cheyenne, 1907–13. Traveled in Europe and Cuba. *b.* Mt. Olivet, Ky., Dec. 6, 1869; *s.* O. S. and Leona (Rigg) D.; reared in small town. A.B., Allegheny Coll., 1890; M.A., 1893. Delta Tau Delta.

Dennis, Lindley H., chief Agrl. and Rural Schs Div., Bur. Voc. Educ., State Dept. Public Instr., Harrisburg, Pa.
b. Dover, N. H., Dec. 12, 1880; *s.* Wm. B. and Helen (Goodwin) D.; reared in town and on farm; *m.* Geraldine G. Conner, 1904; *c.* Lindley Henry. B.S., Penn. State Coll., 1912. Alpha Zeta.

Dennis, Robert Solomon, co. agrl. agt., Brewton, Ala.
Head dept. an. husb., State Agr. Sch., Magnolia, Ark., 1916–7; present position, 1917—. In U. S. Army, 1918—. *b.* Brier Hill, Ala., Mar. 26, 1894; *s.* S. H. and Alice (Menefee) D.; reared on farm. B.S., Ala. Poly. Inst., 1916. Phi Kappa Phi; Gamma Sigma Delta; Theta Chi.

Dennis, Samuel James, refrigeration tech., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Instr. mech. lab., Stanford Univ., 1905–6. *b.* Lynn, Mass., Apr. 22, 1873; *s.* Wm. Brown and Leah Helen (Goodwin) D.; reared in city; *m.* Irma Mary Walker, Sept. 22, 1909; *c.* Catherine Elizabeth. M.E., Cornell Univ., 1906.

Dent, Gratz, co. agrl. agt., Savannah, Ga.

Farmer in Va., 2 yrs., Tex. 1 yr., Ga. 13 yrs. Pres. Farmers' Soc. of Glynn Co. Traveled in Europe. *b.* Savannah, Ga., Sept. 24, 1881; *s.* James Troup and Miriam (Cohen) D.; reared on farm. B.S., Sheffield Sci. Sch., Yale Univ., 1902; student short course, Univ. Ga., 1918. Delta Psi.

Dent, Samuel Preston, co. agrl. agt., Harrisburg, Ark.

Agt. tick eradication, Bur. An. Ind., U. S. Dept. Agr., May–Sept., 1909; fellow and asst. agron., Miss. Exp. Sta., 1909–10; supt. Madison Co. agrl. high-sch., Camden, Miss., 1910–1; supt. Calhoun Co. agrl. high-sch., Derma, Miss., 1911–4; farm operator, 1914–6; agt. Painsett Co., Ark., 1916—. Dir. and organizer Calhoun Co. Coop. Shipping Assoc., 1914—; Poinsett Co. Live-Stock Assoc., 1918; Poinsett Co. Duroc Breedsers' Assoc. *b.* Russum, Miss., Sept. 24, 1889; *s.* J. H. and Annie M. (Gilbert) D.; reared on farm; *m.* Maude Elizabeth Hollis, June 12, 1912; *c.* Paul Allen, Joseph Thomas. B.S., Miss. A. & M. Coll., 1908.

Derr, Henry Benjamin, co. agrl. agt., Fairfax, Va.

Instr. soils and crops, Univ. Neb., 1905; prof. biol., Danville, Ill., high-sch. and Summer Normal, 1906; Off. Cereal Invest., U. S. Dept. Agr., 7 yrs. *b.* Mt. Carmel, Pa., May 22, 1867; *m.* Isabelle Lee, May 22, 1890; *c.* Howard L., Grace Mae, Norman Stuart. B.S.A., Univ. Ill., 1905.

Detlefsen, John A., asst. prof. genetics, Univ. Ill., Urbana, Ill.

Austin teaching fellow, Harvard Univ., 1908–12; present position, 1912—. Traveled in Europe. *b.* Norwich, Conn., Sept. 12, 1883; *s.* Geo. Detlef and Augusta (Nadolny) D.; reared in town (in flor. and hort. business); *m.* Ruth Sarah Atwell, June 18, 1914; *c.* John Detlef. A.B., Dartmouth Coll., 1908; A.M., Harvard Univ., 1910; D.Sc., 1912. Phi Beta Kappa; Sigma Xi; Phi Gamma Delta.

De Turk, Ernest E., asst. prof. agrl. chem., Penn. State Coll., State College, Pa.

General farmer and distr. sch. teach., 1906–9; asst. agrl. chem., Penn. State Coll., 1913–4; instr., 1914–6; asst. prof., 1916—. *b.* Martinsville, Ind., Sept. 24, 1887; *s.* Eugene and Viola (Wetherby) D.; reared on farm; *m.* Nellie Metz, Aug. 26, 1914; *c.* Wm. Ernest. B.S.A., Purdue Univ., 1913; M.S., Penn. State Coll., 1916; studied Univ. Ill., 1917–8. Sigma Xi.

Deuel, Ray Eugene, co. agrl. agt., Exeter, N. H.

Instr. an. husb., Cornell Univ., 1911–3; agt. Orleans Co., Vt., 1914–6; ext. lect., Vt., winter 1914; agt. Rockingham Co., N. H., 1916—. *b.* Chittenango, N. Y., May 20, 1886; *s.* W. E. and Francis (Bettinger) D.; reared in country; *m.* Diana M. Constable, Dec. 24, 1912; *c.* Ray E. Jr., Madeleine, Frank M., Walter E. B.S.A., Cornell Univ., 1911. Alpha Zeta.

De Vinna, Lawrence Estill, distr. agrl. agt., Mountain Grove, Mo.

Asst. farm crops, Univ. Mo., 1916–7; agt. in Wright, Douglas and Ozark Cos., 1917—. *b.* Akinsville, Mo., Jan. 8, 1887; *s.* Philip H. and Ada V. (Muir) D.; reared on farm; *m.* Ina M. Stockton, Nov. 22, 1911; *c.* Ada Jeanette, Genevieve Eleanor, Geraldine. B.S.A., Univ. Mo., 1910.

Dewey, Lyster Hoxie, bot. in chg. fiber invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Instr. bot., Mich. Agr. Coll., 1888–90; asst. bot., U. S. Dept. Agr., 1890–1900; present position, 1900—. Del. from U. S. to Inter. Fiber Congress, Java, 1911. Traveled in Mexico, W. Indies, Bahamas, Java, Japan. *Auth.:* Hemp, 1913. *b.* Cambridge, Mich., Mar. 14, 1865; *s.* Francis Asbury and Harriet (Smith) D.; reared on farm; *m.* Etta Conkling, Aug. 22, 1889; *c.* Grace Marguerite, Mary Genevieve. A.B., Mich. Agr. Coll., 1888.

Dickens, Albert, prof. hort., Kans. State Agr. Coll., Manhattan, Kans.

Foreman, Munger Orchards, Eureka, Kans., 1895; instr. Ellinwood high-sch., 1897–8; asst. hort., Kans. State Agr.

Coll., 1899–1901; acting prof., 1901–2; prof., 1902—. Trustee, Kans. Hort. Soc., 1908—. *b.* Anoka, Minn., Oct. 24, 1867; *s.* Wm. and Sarah (Ridge) D.; reared in town and on farm; *m.* Bertha Kimball, Jan. 1, 1898; *c.* Elizabeth, Wm., Richard K., John B. B.S., Kans. State Agr. Coll., 1893; M.S., 1901. Alpha Zeta; Phi Kappa Phi.

Dickey, Grover, supt. farm of John L. Roper Lumber Co., Jacksonville, N. C.

Teach. agron., 2d Distr. Agr. Sch., Russellville, Ark., 1 yr.; teach. rural and high-schs., Ark., 2 yrs.; co. agrl. agt., N. C., 9 mos. *b.* Dover, Ark., Jan. 25, 1893; *s.* J. L. and Mattie (Petty) D.; reared on farm; *m.* Bess K. West, May 6, 1916; *c.* Forrest Bruce. B.S., 2d Distr. Agr. Sch.

Dietrich, William, co. agrl. agt., Preston, Minn.

Farm manag., Hixton, Wis., 1901–2; soil expert, Bur. Soils, U. S. Dept. Agr., 1903–4; instr. to asst. prof. swine husb., Univ. Ill., 1904–12; asst. to asst. chief, Ill. Exp. Sta., 1904–12; asst. prof. an. and dairy husb., Univ. Minn., Crookston, 1913–8; agt. Fillmore Co., 1918—. *Auth.:* Swine, 1912; Live-stock on the Farm, 1917. *b.* Black River Falls, Wis., Mar. 24, 1871; *s.* Henry and Susan (Witting) D.; reared on farm; *m.* Mathilda Klein, Feb. 27, 1901; *c.* Norma L., Manford K. B.S.A., Univ. Wis., 1899; M.S., Univ. Ill., 1906. Sigma Xi.

[**Dille, A.,** p. 310.

Dillenback, Frank Harold, co. agrl. agt., Guthrie, Okla.

Princ. high-sch., Roxbury, Kans., 1916–7; present position, 1917—. *b.* Hastings, Neb., Jan. 8, 1890; *s.* J. I. and Charlotte (Hitchcock) D.; reared on farm; *m.* Kathryn Dappen, Jan. 15, 1918. B.S.A., Kans. State Agr. Coll., 1916.

Dillon, Charles James, manag. ed., The Capper Publications, Topeka, Kans.

Prof. ind. journalism, Kans. State Agr. Coll., 1910–3. With Kansas City Star, 12 yrs.; now manag. ed., The Missouri Valley Farmer, The Farmers Mail & Breeze, The Missouri Ruralist, The Oklahoma Farmer, The Nebraska Farm Journal. Mem. bd. of governors, Inter. Farm Congress. Traveled in Orient, South Seas, Mexico. *Auth.:* Journalism for High Schools, 1918. *b.* Brooklyn, N. Y., Jan. 9, 1869; *s.* Joseph and Margaret (Halligan) D.; reared in city and on farm; *m.* Florence Voris Pierson, Dec. 20, 1901; *c.* John, Ralph, Millicent.

Dimock, William Wallace, prof. path. and bact., Div. Vet. Med., Ia. State Coll., Ames, Ia.

Asst. an. husb., Agr. Exp. Sta., Cuba, 1906–8; chief vet., Nat. Bd. Health, Cuba, 1908–9; present position, 1909—. *b.* Tolland, Conn., Feb. 20, 1880; *s.* Henry Eugene and Ellen M. (Clark) D.; reared on farm; *m.* Ruth Attwill Mudge, Nov. 27, 1909; *c.* Phoebe, Betty, Shubael Eugene, Gladys Eusebia. B.A., Conn. Agr. Coll., 1901; D.V.M., Cornell Univ., 1905; D.V.M., Univ. Havana, Cuba, 1908. Phi Kappa Phi; Gamma Alpha.

Dinsmore, Wayne, sec. Percheron Soc. of Am., 2148 W. 110th Place, Chicago, Ill.

From asst. to assoc. prof. an. husb., Ia. State Coll., 1903–10. Sec.-treas. Nat. Soc. of Record Assocs. *Auth.:* (with A. H. Sanders) A History of the Percheron Horse. *b.* Pacific Junction, Ia., Dec. 22, 1879; *s.* Geo. W. P. and Emma (Sherman) D.; reared on farm; *m.* Mary Kinnear Gray, Nov. 1, 1905; *c.* John Bell, Robt. B.S.A., Ia. State Coll., 1904; M.S.A., 1915. Phi Kappa Phi.

Dix, Everett L., acting prof. educ. methods, Berea Normal Sch., Berea, Ky.

Teach. rural schs., 1902–6; princ. Germantown Acad., 1906–8; teach. Morehead Normal, 1908–9; princ. Boone high-sch., 1909–14; princ. Mayslick high-sch., 1914–7; present position, 1917—. *Ed.,* rural newspaper; Mountaineer Mag.; Kentuck Colonel Mag.; Education. *b.* Mt. Carmel, Ky., Sept. 24, 1882; *s.* Alexander and Cora Lee (Hannah) D.; reared on farm; *m.* Lottie Stewart, June 30, 1909; *c.* Alice Lee, Francis Errett. Student Nat. Normal Univ., Transylvania Coll., George Peabody Coll. for Teachers.

Doane, Duane Howard, chg. Rural Serv., Miss. Valley Trust Co., St. Louis, Mo.

With Off. Farm Manag. and States Relations Serv., U. S. Dept., Agr., 1906–16; prof. farm manag., Univ. Mo., 1910–6; state leader co. agts., 1912–6. Pres. Nat. Agr. State Leaders' Assoc., 1914–6; pres. Inter-State Congress, St. Joseph, Mo., 1914; mem. exec. bd., Fed. Mo.

Commercial Clubs, 1915–6; chm. bd. dirs., Mo. Farm Manag. Assoc., 1909–16. *Auth.:* Sheep Feeding and Farm Management, 1912. Contributing ed., Missouri Farmer, 1911–6. *b.* Mexico, N. Y., Jul. 30, 1883; *s.* D. G. and Nettie (Powell) D.; reared in country and town; *m.* Eureth R. Grant, Nov. 7, 1911; *c.* Chas. Earl. B.S.A., Univ. Mo., 1908; M.S.A., 1909. Alpha Zeta.

Doddridge, Benjamin H., co. agrl. agt., Madison, Ind.

b. Centerville, Ind., Jul. 2, 1888; *s.* W. I. D.; reared on farm; *m.* Edith S. Butsch, June 20, 1917; *c.* Emmajean. B.S., Purdue Univ., 1915. Alpha Zeta; Alpha Gamma Phi.

Dodge, Hiram A., instr. an. husb., N. Y. State Sch. Agr., Canton, N. Y.

Asst. an. nutr., Penn. State Coll., 1909; prof. an. husb. and dairying, DeHirsch Agr. Sch., Woodbine, N. J., 1910–2; instr. an. husb., N. Y. State Sch. Agr., Canton, N. Y., 1912–5; prof. an. husb. and dairying, Theo. N. Vail Agr. Sch., Lyndon Center, Vt., 1915–7; head dept. dairying and an. husb., N. Y. State Sch. Agr., Farmingdale, L. I., 1917. *b.* Morrisville, Vt., Aug. 30, 1885; *s.* Alfred and Angie M. (Clement) D.; reared on farm; *m.* Emma Jane Seipt, Aug. 21, 1913. B.S., Univ. Vt., 1909. Alpha Zeta.

Dodge, Richard Elwood, farmer, Washington, Conn.

Asst. geol., Harvard Univ., 1891–4; instr., 1894–5; instr. geol., Teachers Coll., Columbia Univ., 1895–6; assoc. prof., 1896–7; prof. geography, 1897–1916; emeritus prof., 1916—. Farmer, 1906—. Pres. Litchfield Co. Farm Bur. Asst. co. agt. leader, Conn. Agr. Coll., 1918—. *Auth.:* Reader in Physical Geography, 1900; Dodge's Geographies, 1908; (with Clara B. Kirchway) Teaching of Elementary School Geography, 1915; (with Isaiah Bowman) Brunhes' Human Geography, 1918. *b.* Wenham, Mass., Mar. 30, 1868; *s.* Robt. Francis and Sarah Elizabeth (Wood) D.; reared on farm; *m.* Stella Pomeroy Dalton, Aug. 19, 1896; *c.* Stanley Dalton, Margaret, Philip Elwood. A.B., Harvard Univ., 1890; A.M., 1894. Sigma Xi; Delta Upsilon.

Dodson, William Rufus, dean Coll. Agr., dir. Exp. Sta., La. State Univ., Baton Rouge, La.

Asst. biol., Univ. Mo., 1890–4; student asst., Harvard Bot. Lab., 1893–4; prof. bot., La. State Univ., 1894–1902; asst. dir. Exp. Sta., 1902–5; dir., 1905—; dean Coll. Agr., 1909—; dir. ext., 1914—. Mem. State Bd. Agr., State Museum Bd. Farm operator, 1914—. On staff U. S. Food Administration, 1918—. *b.* Belton, Tex., Jul. 17, 1867; *s.* Jesse Allen and Mary Elizabeth (Scott) D.; reared on farm; *m.* Minnie Pettengill. Jan. 29, 1896; *c.* Rogers, Alma, Wm. Rufus Jr. B.S., Univ. Mo., 1890; A.B., Harvard Univ., 1894. Beta Theta Pi.

Doerschuk, J. J., co. agrl. agt., Sparta, Ill.

Instr. agr., high-sch., Elk River, Royalton, Long Prairie, Minn., 1911–7; agt. Randolph Co., Ill., 1917—. Sec.-treas. John Randolph Nat. Farm Loan Assoc.; chm. Food Production and Conservation Com., Randolph Co., for State Council of Defense and mem. State Com. *b.* Shanesville, O., Apr. 23, 1884; *s.* John and Mary (Zahner) D.; reared in town and on farm; *m.* Edna Laura Forman, Aug. 13, 1913; *c.* Herbert Cappel, Janet Lucile. B.S.A., Univ. Wis., 1911.

Doneghue, Ray Claude, agron., N. D. Exp. Sta., Fargo, N. D.

Asst. soil survey, Ill. Exp. Sta., 1906; asst. agron. and soil survey, Mo. Exp. Sta., 1906–8; asst. prof. agron., N. D. Agr. Coll. and asst. agron. Exp. Sta., 1908–11; prof. agron., 1911–4; present position, 1914—. Pres. N. D. Poly. Soc., 1917–8; pres. N. D. Acad. Sci., 1918; sec. Farm Managers' Assoc., 1911—. *b.* Columbia, O., Feb. 19, 1883; *s.* E. J. and Nettie V. (Cole) D.; reared on farm; *m.* Mayble Miller, June 4, 1908; *c.* Dorothy May, Merritt Eugene, Donald Miller. B.S.A., Ohio State Univ., 1906; M.S.A., Univ. Mo., 1908. Alpha Zeta; Phi Kappa Phi.

Donnan, Ralph LeRoy, state co. sec., Ind. Y. M. C. A., 615 Majestic Bldg., Indianapolis, Ind.

b. Agosta, O., Feb. 2, 1884; *s.* John W. and Annie (Grizell) D.; reared in town; *m.* Mary A. Lance, June 17, 1912; *c.* Anna Jane. A.B., Ohio Northern Univ., 1910. Sigma Pi.

Donnan, Ray Fisk, co. agrl. agt., Nicholas Bldg., Toledo, O.
b. Wauseon, O., May 4, 1890; *s.* John W. and Annie (Grizell) D. B.A., Ohio Wesleyan Univ., 1912; B.S.A., Ohio State Univ., 1914. Alpha Sigma Phi; Delta Sigma Rho.

Dooley, Leslie Hopewell, co. agrl. agt., Maryville, Tenn.
b. Knox Co., Tenn., Jan. 23, 1893; *s.* Thos. S. and Dora V. (Goodykoontz) D.; reared on farm and in city; *m.* Frances Palmer, Jan. 18, 1917; *c.* Thos. Stanhope. B.S.A., Univ. Tenn., 1914. Alpha Tau Omega.

Dorchester, Charles Sylvester, asst. prof. farm crops, Ia. State Coll., Ames, Ia.
Asst. agrl. ext., Ia. State Coll., 1913–4; asst. prof., 1914–6; asst. prof. farm crops, 1916—. *b.* State Center, Ia., Sept. 8, 1889; *s.* Lowing A. and May (Miller) D.; reared on farm; *m.* Ferne Marie Kennedy, June 16, 1914; *c.* Lois Amy. B.S., Ia. State Coll., 1913. Phi Kappa Phi; Delta Sigma Rho; Gamma Sigma Delta.

Dorner, Herman Bernard, prof. and chief flor., Univ. Ill., Urbana, Ill.
Asst. bot., Purdue Exp. Sta., 1901–2; practical flor., 1902–6; asst. bot., Wabash Coll., 1906–8; asst. flor., Univ. Ill., 1908–11; asst. prof. and asst. chief flor., 1911–8; prof. and chief, 1918—. *Auth.:* Window Gardening, 1908. *b.* LaFayette, Ind., Apr. 10, 1878; *s.* Frederick and Margaret S. (Eihl) D.; reared in city; *m.* Anna V. Simon, June 29, 1915; *c.* Mary Ann. B.S., Purdue Univ., 1900; M.S., 1901.

Dorsey, Henry, asst. prof. agron., W. Va. Univ., Morgantown, W. Va.
b. Mt. Lookout, W. Va., May 14, 1882; *s.* Adam C. and Ruth (Groves) D.; reared on farm. B.S.A., W. Va. Univ., 1914; M.S.A., 1916. Phi Sigma Kappa.

Dorsey, Maxwell Jay, assoc. prof. hort. in chg. sect. of fruit-breeding, Univ. Minn., University Farm, St. Paul, Minn.
Instr. hort., Univ. Me., 1906–7; asst. hort., N. Y. Agr. Exp. Sta., Geneva, 1907–10; asst. plant-breeding, Cornell Univ., 1910–1; present position, 1911—. *b.* Dresden, O., May 3, 1880; *s.* Samuel and Martha Jane (Magruder) D.; reared on farm; *m.* Jean Muir, Dec. 9, 1914; *c.* John Muir. B.S., Mich. Agr. Coll., 1906; M.S.A., Cornell Univ., 1910; Ph.D., 1913. Sigma Xi; Alpha Zeta; Gamma Alpha.

Doryland, Charles James Thomas, soil bact., N. D. Exp. Sta., Fargo, N. D.
Asst. soils, Kans. State Agr. Coll., 1909–10; asst. soils and crops, short-course, Rutgers Coll., 1910–1; asst. prof. chg. bact., N. D. Agr. Coll., 1911–4; present position, 1914—; in chg. soil bact. invest., N. D. Exp. Sta. *b.* Junction City, Kans., June 15, 1880; *s.* John and Sarah Evelyn (Spiegel) D.; reared on farm; *m.* Helen Louise Whitaker, Dec. 21, 1912; *c.* Thos. B.S., Kans. State Agr. Coll., 1908; M.S., 1910; Sessell fellow, Yale Univ., 1918–9. Alpha Zeta; Phi Kappa Phi.

Doten, Samuel Bradford, dir. Nev. Exp. Sta., Reno, Nev.
Instr. hist. and math., Univ. Nev., 1898–1900; instr. math. and ent., 1900–2; asst. prof., 1902–3; asst. prof. ent., meteorology, math., 1903–5; prof. ent., 1906–13; ent. Exp. Sta., 1906–13; dir., 1913—. *b.* Virginia City, Nev., Dec. 14, 1875; *s.* Alfred and Mary (Stoddard) D.; reared in country town; *m.* Laura Katherine Schweiss, 1915. B.S., Univ. Nev., 1898; M.A., 1913. Phi Kappa Phi.

Douglass, Ellwood, co. agrl. agt., Freehold, N. J.
Farmer, N. Y., 1913, N. J., 1914; agt. Atlantic Co., N. J., 1914–7; agt. Monmouth Co., 1917—. *b.* Cold Spring, N. J., Nov. 14, 1889; *s.* Shamgar and Mary R. (Schellenger) D.; reared on farm; *m.* Edna R. Weeks, Oct. 25, 1915; *c.* Cora Louise. Student Rutgers Coll. and Cornell Univ.

Douglass, Thomas R., prof. farm crops and soils ext., Ia. State Coll., Ames, Ia.
Asst. prof., Univ. Mo., 1911–4; present position, 1911—. *b.* Shelbina, Mo., Sept. 8, 1888; *s.* James G. and Mollie (Mitchell) D.; reared on farm; *m.* Alleta Batterton, June 29, 1914; *c.* Elizabeth Batterton. B.S.A., Univ. Mo., 1911. Sigma Xi; Alpha Zeta.

Dowdy, Guy, co. agrl. agt., Wayne, W. Va.
Teach. Marshall Coll. Normal Sch., 1914–5. *b.* Union, W. Va., Nov. 3, 1889; *s.* J. H. and Edna (Mitchell) D.; reared

on farm; *m.* Olive Tallman, Sept. 15, 1916. B.S., W. Va. Univ., 1917.

Dowell, Austin Allyn, prof. an. husb., Univ. Alberta, Edmonton, Alta.
Instr. an. husb., Ia. State Coll., 1915–7; present position, 1917—. *b.* Gaynor City, Mo., Sept. 27, 1891; *s.* John B. and Nettie (Allyn) D.; reared on farm; *m.* Isabel Dyer, Sept. 6, 1916; *c.* Hannah Kellogg. B.S., Ia. State Coll., 1915. Delta Tau Delta; Alpha Zeta; Phi Kappa Phi.

Drewiecke, Leo August, teach. agr., Glendive, Mont.
b. Glenmore, Wis., Mar. 26, 1897; *s.* Valentine and Constance (Winetske) M.; reared on farm.

Drinkard, Alfred Washington Jr., dir. Va. Exp. Sta., Blacksburg, Va.
Record clerk in hort., Va. Exp. Sta., 1906–8; asst. hort., 1908–12; assoc. hort., 1912–6; dir., 1916—. Vice-pres. Va. State Hort. Soc., 1917. *b.* Appomattox, Va., Jan. 10, 1883; *s.* Chas. M. and Mary Anne (Martin) D.; reared on farm. B.S., Va. Poly. Inst., 1906; M.S., 1908; Ph.D., Cornell Univ., 1913. Sigma Xi.

Droge, William F., co. agrl. agt., Rocky Ford, Colo.
Asst. bact., Kans. State Agr. Coll., 1910–1; deputy state dairy comnr., Kans., 1912–3; creamery manag., Swift & Co., 1914; farmer, 1915–6; asst. prof. an. husb., Colo. Agr. Coll., 1917; co. agt., 1918—. *b.* Seneca, Kans., May 6, 1881; *s.* Conrad and Sophie (Poppe) D.; reared on farm; *m.* Helen M. Myers, June 19, 1913; *c.* Elizabeth Mears, Frederick Wm. B.S., Kans. State Agr. Coll., 1901.

Dryden, Victor Vincil, co. agrl. agt., Mahnomen, Minn.
Instr. agr., high-sch., Mahnomen, 1913–8; co. agt., 1918—. *b.* Sampsel, Mo., Aug. 21, 1888; *s.* John R. and Margaret (Horeth) D.; reared on farm; *m.* Esther Jane Hammerli, Jul. 25, 1916; *c.* Esther Maxine. B.S., Kans. State Agr. Coll., 1913.

DuBois, Charles Orrin, dir. State Sch. Agr. and Dom. Sci., Delhi, N. Y.
Princ. Central Square high-sch., 1895–1902; Tully, N. Y., 1902–9; asst. dir. Alfred State Sch. Agr., 1909–17; present position, 1917—. *b.* Wetona, Pa., Oct. 28, 1867; *s.* Broaded and Betsy Ann (Rice) D.; reared on farm; *m.* Gertrude DeVoe, Dec. 27, 1894; 2d, Grace Brown, Jan., 1897; *c.* Hascall, Marian, Donald. Ph.B., Ill. Wesleyan, 1909; B.S., Alfred Univ., 1910; grad. work, Cornell Univ., 1913.

Duggar, John Frederic, prof. agr. and dir. Exp. Sta., Ala. Poly. Inst., Auburn, Ala.
Asst. prof. agr., Tex. A. & M. Coll., Bryan, 1887–9; ed. Southern Live-Stock Journal, 1890; asst. dir., U. S. Exp. Sta., Clemson Coll., 1890–2; ed. dept. field crops, Exp. Sta. Record, U. S. Dept. Agr., 1893–5; prof. agr., Ala. Poly. Inst., 1896—; dir. Exp. Sta., 1903—; dir. ext. serv., 1914—. *Auth.:* Agriculture for Southern Schools; Southern Field Crops. *b.* Faunsdale, Ala., Aug. 24, 1868; *s.* Reuben Henry and Margaret Louisa (Minge) D.; *m.* Frances Ambrose Camp, June 17, 1891. B.S., Miss. A. & M. Coll., 1887; M.S., 1888.

Duncan, Luther Noble, supt. junior and home ext., Ala. Poly. Inst., Auburn, Ala.
Teach. agr., Ala. agrl. high-schs., 1900–6; asst. agr., Ala. Poly. Inst., 1906–9; present position, 1909—. Mem. State Bd. Agr. *Assoc. ed.,* Farm Life Readers, books 4 and 5. *b.* Russellville, Ala., Oct. 14, 1875; *s.* Thos. A. and Margarett (Hargett) D.; reared on farm; *m.* Annil Elizabeth Smith, Feb. 26, 1902; *c.* Mary Elizabeth, Margaret Susan, Robt. Smith. B.S., Ala. Poly. Inst., 1900; M.S., 1907. Kappa Sigma; Phi Kappa Phi.

Dunks, Fred Sheldon, co. agrl. agt., Howell, Mich.
Asst. chem., Mich. Dairy and Food Dept. *b.* Union City, Mich., Feb. 1, 1880; *s.* J. S. and Mary Hudson (Bennett) D.; reared on farm; *m.* Jean Gunn Gow, Oct. 12, 1911; *c.* Sheldon B., Hudson G. B.S., Mich. Agr. Coll., 1905.

Dunlap, Frederick, prof. for., Univ. Mo., Columbia, Mo.
Mem. U. S. For. Serv., 1904–13; in For. Products Lab., 1903–13; lect. for., Univ. Wis., 1910–3; present position, 1913—. Fellow Royal Soc. Arts. Studied German and Swiss forests, 1903. *Assoc. ed.,* Forest Quarterly, 1902—. *b.* Ross Co., O., June 17, 1881; *s.* Philip

Marion and Mary E. (Lutz) D.; reared on farm; *m.* Florence Hallowell, Oct. 20, 1906; *c.* Lawrence Hallowell, Marion, Richard Morris. Studied Ohio State Univ., 1899–1901; Cornell Univ., 1901–4; Washington Univ., 1907–9; Univ. Wis., 1909–10.

Dunlap, Renwick William, farmer, Kingston, O.

State senator, O.; dairy and food comnr.; sec. State Bd. Agr. *b.* Pickaway Co., O., Oct. 21, 1872; *s.* Nelson J. and Elizabeth J. (Bell) D.; reared on farm; *m.* Maxine Ethel Cummins, June 9, 1897; *c.* Nelson H., Mary Maxine. B.S.A., Ohio State Univ., 1895. Kappa Sigma.

Dunlap, Robert Bruce, co. agrl. agt., Altoona, Pa.

Agt. Blair Co., Pa., 1912—. *b.* Walnut Bottom, Pa., Aug. 22, 1890; *s.* W. S. and Margaret (McCullough) D.; reared on farm; *m.* Mildred Ride, Oct. 7, 1915. B.S., Penn. State Coll., 1912. Alpha Gamma Rho; Phi Kappa Phi.

Durand, Edward Dana, prof. statistics and agrl. econ., Univ. Minn., St. Paul, Minn.

Legislative librarian, N. Y. State Library, 1895–7; asst. prof. administration and finance, Stanford Univ., 1898–9; sec. U. S. Ind. Comn., 1900–2; instr. econ., Harvard Univ., 1902; special expert agt., U. S. Census Off., 1902; special examiner, Bur. of Corporations, 1903–7; deputy comnr. of corporations, 1907–9; dir. U. S. Census, 1909–13; present position, 1913—; Meat Div., U. S. Food Administration, 1917—. *Auth.:* Finances of New York City, 1898; The Trust Problem, 1915. *b.* Romeo, Mich., Oct. 18, 1871; *s.* Cyrus Y. and Celia (Day) D.; *m.* Mary Elizabeth Bennett, Jul. 15, 1903; *c.* Dana Bennett, Bennett, Mary C., Eric. A.B., Oberlin Coll., 1893; Ph.D., Cornell Univ., 1896.

Durst, Charles Elmer, co. agrl. agt., Anna, Ill.

Asst., assoc. and asst. prof. olericulture, Univ. Ill., 1909–18; agt. Union Co., 1918—. Chm. Food Production and Conservation Com. for Union Co., State Council Defense. Asst. sec., Am. Soc. for Hort. Sci. *b.* Knox City, Mo., May 2, 1884; *s.* H. and Carrie (Layman) D.; reared on farm; *m.* Bertie Good, Sept, 4, 1912; *c.* Chas. Wm. B.S., Univ. Ill., 1909; M.S., 1912.

Dutcher, Raymond Adams, asst. prof. agrl. biochem., Univ. Minn., University Farm, St. Paul, Minn.

Instr. and asst. chem., S. D. State Coll., 1907–10; asst. chem., Univ. Mo., 1910–2; asst. chem., Univ. Ill., 1912–3; instr. and asst. prof. agrl. chem., Ore. Agr. Coll., 1913–7; present position, 1917—. *b.* Raymond, S. D., Mar. 28, 1886; *s.* Paul and Susie M. (Adams) D.; reared in small town; *m.* Mary M. Wright, Sept. 14, 1912; *c.* Adams Wright. B.S., S. D. State Coll., 1907; M.S., 1910; A.M., Univ. Mo., 1912. Gamma Sigma Delta; Alpha Chi Sigma.

Duvel, Joseph William Tell, crop tech. in chg. grain standardization invests., U. S. Dept. Agr., Washington, D. C.

Asst. bot., Ohio Exp. Sta., 1898–9; sci. asst., Seed Lab., U. S. Dept. Agr., 1902–7; present position, 1907—. Fellow A. A. A. S. Vice-pres. Washington Bot. Soc. *b.* Wapakoneta, O., Nov. 16, 1873; *s.* August and Amanda (Myers) D.; reared on farm; *m.* Elva Smith, May 11, 1904; *c.* Maxine, Wm. August. B.Sc., Ohio State Univ., 1897; D.Sc., Univ. Mich., 1902. Kappa Sigma.

Dvorachek, Henry Edmund, prof. an. husb., Univ. Ark., Fayetteville, Ark.

Instr. an. husb., Colo. Agr. Coll., 1910–1; manag. Holland Dairy, Colorado Springs, 1911–2; asst. prof. an. husb., Colo. Agr. Coll., 1912–3; assoc. prof., 1913–4; present position, 1915—. Sec.-treas., Colo. Live-Stock Breeders' Assoc., 1914–5; N. W. Ark. Dairymen's Assoc., 1918; N. W. Ark. Sheep and Goat Growers' Assoc., 1918. *b.* Glencoe, Minn., Jul. 27, 1885; *s.* Anton and Katherine (Danek) D.; reared on farm; *m.* Clara Schultz, June 10, 1911; *c.* Wm. Henry, Harold Edmund, Mae Ellen. B.S.A., Univ. Minn., 1910. Alpha Zeta.

Dyer, Cyrus Leavitt, sci. asst. hort. and pom. invests., Bur. Plant Ind., Box 586, Riverside, Calif.

b. Elm Springs, Ark., Jan. 23, 1892; *s.* Wm. Howard and Laura (Leavitt) D.; reared in town and on farm; *m.* Anne Elizabeth Cutler, Apr. 19, 1916; *c.* Cyrus L. Jr. B.S.A., Univ. Ark., 1914.

Dyer, Walter Alden, author, Rock Walls Farm, Amherst, Mass.

On staff, Springfield Union, Mass., 1900–1; Criterion, N. Y., 1901; ed. Wall Paper News, N. Y., 1901–5; on staff, Country Life in America, 1905–6; manag. ed., 1906–14; assoc. ed., Amherst Graduates' Quarterly, 1916–8. *Auth.:* The Lure of the Antique, 1910; The Richer Life, 1911; Pierrot, Dog of Belgium, 1915; Early American Craftsmen, 1915; Gulliver the Great, and Other Dog Stories, 1916; The Humble Annals of a Back Yard, 1916; Creators of Decorative Styles, 1917; The Five Babbits at Bonnyacres, 1917; Handbook of Furniture Styles, 1918; The Dogs of Boytown, 1918. *b.* Roslindale, Mass., Oct. 10, 1878; *s.* Ebenezer Porter and Martha Augusta (Fearing) D.; *m.* Muriel Worthington Childs, June 1, 1907. A.B., Amherst Coll., 1900.

Dykstra, Ralph R., prof. vet. surg., Kans. State Agr. Coll., Manhattan, Kans.

Asst. prof. anatomy, obstetrics and clinics, Ia. State Coll., 1905–7; assoc. prof. 1907–9; prof., 1909–11; vet. insp., U. S. Bur. An. Ind., summer 1911; asst. prof. vet. med., Kans. State Agr. Coll., 1911–3; prof. surg., 1913—. Pres. Kans. Vet. Med. Assoc., 1917–8. *Auth.:* (with F. S. Schoenleber) Castration of Domesticated Animals, 1914. *b.* Droningen, Netherlands, Sept. 24, 1879 (imigrated 1881); *s.* Jan and Geertje (Smilde) D.; reared in town; *m.* Cecelia Welch, Oct. 12, 1910. D.V.M., Ia. State Coll., 1905. Phi Kappa Phi; Alpha Psi.

E

Earle, Drayton Edwin, cotton specialist, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Instr. textile engin., Tex. A. & M. Coll., 1905–6; asst. prof. textile engin. and cotton judging, Clemson Agr. Coll., 1906–10. *b.* Pickens, S. C., Sept 29, 1879; *s.* Berry B. and Laura T. (Baker) E.; reared on farm; *m.* Jeannette A. Rochester, June 22, 1910; *c.* Anne Eugenia, Judson Drayton, Rochester Baker. B.S., Clemson Agr. Coll., 1903.

Earle, Franklin Sumner, Herradura, Cuba.

With Miss. Exp. Sta., 1894–5; asst. path. in chg. mycological herbarium, U. S. Dept. Agr., 1895–6; hort., Ala. Exp. Sta., 1896; prof. biol., Ala. Poly. Inst., 1896–1901; asst. curator in chg. mycological collections, N. Y. Bot. Gard.; sent by N. Y. Bot. Gard. and U. S. Dept. Agr. to Cuba and Jamaica, 1903; dir. Estacion Central Agronomica of Cuba, 1904–6; consulting agrst., Cuban-Am. Sugar Co., 1908–11; pres. Cuba Fruit Exchange, 1911–4. Fellow A. A. A. S. Pres. Bot. Soc. of Am., 1907–6. *Auth.:* Southern Agriculture, 1907. *b.* Dwight, Ill., Sept. 4, 1856; *s.* Parker and Melanie (Tracy) E.; *m.* Susan B. Shekan, 1886; 2d, Esther J. Shekan, 1896. Studied Univ. Ill.; M.S., Ala. Poly. Inst., 1902.

Earp, Edwin Lee, prof. sociol., Drew Theol. Sem., Madison, N. J.

Ordained M. E. ministry, 1900; pastor, Newark and Plainfield, N. J., 1900–4; head dept. sociol., Syracuse Univ., 1904–9; present position, 1909—. Mem. Comn. on Church and Country Life of Fed. Council of Churches of Christ in Am. Del. Inter. Congress of Hygiene and Demography, Washington, D. C. Lect. rural sociol., Farmers' Week, Cornell Univ., Rutgers Coll.; School for Rural Leadership, Cornell Univ. Traveled in Europe, 1898–9, 1900–1. *Auth.:* Social Aspects of Religious Institutions, 1908; The Social Engineer, 1911; The Rural Church Movement, 1914; A Community Study or The Religious Social Survey, 1917; The Rural Church Serving the Community, 1918. *b.* Illchester, Md., Oct. 26, 1867; *s.* Israel S. and Rachel Melcena (Barnette) E.; reared on farm; *m.* Lina Gibb Pearsall, May 1, 1901; *c.* Ruth, James. A.B., Dickinson Coll., 1895; A.M., N. Y. Univ., 1897; B.D., Drew Theol. Sem., 1898; Ph.D., Leipzig, 1901; awarded Delaplaine McDaniel fellowship, Drew Theol. Sem., 1898. Phi Beta Kappa; Phi Delta Theta.

Eastman, Edward R., ed. and manag. organization, Dairymen's League, 110 W. 40th St., New York City.

Vice-princ. high-sch., Newark Valley, N. Y., 2 yrs.; princ. high-sch., Interlaken, 5 yrs.; agrl. agt., Delaware Co., 1916–7; asst. state dir. co. agts., Cornell Univ., 1917–8; present position, 1918—. *b.* Berkshire, N. Y., Sept. 29, 1885; *s.* Chas. R. and Elizabeth (Roe) E.; reared on farm; *m.* Belle V. Rockefeller, 1907; *c.* Donald D., Geo. R. Special student, Cornell Univ.

Eastman, Eric Eyre, assoc. prof. soils, Ia. State Coll., Ames, Ia.

Instr. soils, Ia. State Coll., 1913–5; asst. prof., 1915–7; assoc. prof., 1917—. *b.* Denver, Colo., Feb. 27, 1890; *s.* Clyde J. and Florence (Rose) E.; reared in city suburbs; *m.* Amalia Schloesser, 1910; *c.* Eric Earl, Alfred Clyde. B.S., Ia. State Coll., 1913; M.S., 1915. Phi Kappa Phi; Gamma Sigma Delta; Phi Kappa Psi.

Eastman, Jasper F., co. agrl. agt., Binghamton, N. Y.

Asst. agr., N. H. Exp. Sta., 1907–9; agrst., N. Y. State Sch. Agr., Morrisville, 1910–6; agt. Broome Co., 1916—. *Auth.:* Soils Laboratory Manual, 1915. *b.* Townsend, Mass., Mar. 17, 1887; *s.* Geo. L. and Emily M. (Wheeler) E.; reared on farm; *m.* Mildred A. Churton, Aug. 22, 1912; *c.* Janet Roper. B.S., Mass. Agr. Coll., 1907; M.S., Univ. Ill., 1910. Phi Kappa Phi.

Eastman, William R., co. agrl. agt., Romney, W. Va.

Asst. bot. and veg. path., Md. Agr. Coll., 1907; prof. hort. and for., Winona Coll. Agr., Winona Lake, Ind., 1908–11. Farmer, O., 2 yrs., Mich. 3 yrs. *b.* Nashua, Ia., Dec. 27, 1881; *s.* Wm. A. and Hattie A. (Powers) E.; reared on farm; *m.* Edith Cross, Feb. 24, 1915; *c.* Harold D. B.S.A., Ia. State Coll., 1906.

Eaton, Carleton W., assoc. prof. for., Univ. Me., Orono, Me.

b. Calais, Me., Sept. 2, 1887; *s.* Albion H. and Annie M. (Whidden) E.; reared in town; *m.* Mary I. Haskell, Aug. 23, 1917. A.B., Bowdoin Coll., 1910; M.F., Yale Univ., 1910. Psi Upsilon.

Eaton, Theodore Hildreth, prof. agrl. educ., Conn. Agr. Coll., Storrs, Conn.

Operator dairy and market-garden farm, W. Bridgewater, Mass., 1901–6; princ. and teach. agr., Gilmanton Acad., 1906–9; poultry farmer, Gilmanton, N. H., 1908–12; instr., Cornell Univ., 1912–3; instr. agrl. educ., Cent. State Normal, Mich., 1913–4; instr. agr., Columbia Univ., 1915–6; instr. rural educ., Teachers Coll., Columbia Univ., 1915–6; present position, 1916—; state superv. agr. in secondary schs., 1918—. *Auth.:* Organization and Method in Agriculture in Secondary Schools, 1917. *b.* St. Louis, Mo., May 23, 1877; *s.* Lucien and Hannah O. (Noyes) E.; reared in city and on farm; *m.* Theodora West, June 13, 1901; *c.* Theodore H. Jr., Julia. A.B., Harvard Univ., 1900; A.M., Columbia Univ., 1915; Ph.D., 1917. Phi Delta Kappa.

Ebersol, Elmer Tryon, co. agrl. agt., Lincoln, Ill.

Teach. Ill. high-schs., 10 yrs.; asst. chem., Univ. Ill., 1912; instr. crop production, 1913–6; chg. agrl. ext. serv., Sears Roebuck & Co., 1916–7. *b.* Ottawa, Ill., May 27, 1867; *s.* J. E. C. and Maria W. (Tryon) E.; reared on farm; *m.* Virtue Grace Dille, Aug. 2, 1899; *c.* Elmer T. Jr. A.B., Univ. Ill., 1902; M.S., 1915.; B.Agr., 1916.

Eby, Harvey L., prof. rural educ., Univ. Wyo., Laramie, Wyo.

Supt. public schs., Alliance, O., 1910–3; field agt. and ext. teach., Kent State Normal Coll., Kent, O., 1913–5; dept. rural schs., 1915–6; present position, 1916—. *b.* Creston, O., Oct. 4, 1874; *s.* Tobias S. and Susannah (Leatherman) E.; reared on farm; *m.* Anna Marie Brawley, Jul. 27, 1910; *c.* Constance Marie. B.A., Yale Univ., 1910.

Eckles, Clarence Henry, chief dairy husb. div., Univ. Minn., St. Paul, Minn.

Asst. dairy bact., Ia. Exp. Sta., 1896–1901; prof. dairy husb., Univ. Mo., 1901–18; present position, 1918—. *Auth.:* Dairy Cattle and Milk Production, 1911; Dairy Farming, 1916 (with Warren). *b.* Marshall Co., Ia., Apr. 14, 1875; *s.* Chas. and Elvira (Powers) E.; reared on farm; *m.* Alice L. Smith, Dec. 14, 1898; *c.* Doris L., Chas. E., Ruth A. B.S.A., Ia. State Coll., 1895; M.S., 1897; D.Sc., 1916; student Univ. Wis., 1897–8; Goettingen, Germany, 1904–5; Berne, Switzerland, 1905. Sigma Xi; Alpha Zeta; Gamma Sigma Delta.

Eckman, Otto Leo, prof. an. husb., N. H. A. & M. Coll., Durham, N. H.

Asst., Bur. Soils, U. S. Dept. Agr., 1904–7; supt. Hartman Stock Farm Dairy, Columbus, O., 1908–10; present position, 1910—. *b.* Cincinnati, O., Aug. 14, 1880; *s.* Jacob and Lena (Schuster) E,; reared on farm and in city; *m.* Bertha Slack, June 13, 1905; *c.* Bertha Estella. B.S.A., Ohio State Univ., 1904.

Edgerton, Claude Wilbur, plant path., La. Exp. Sta., Baton Rouge, La.

Asst. bot. dept., Cornell Univ., 1905–7; instr., 1907–8; present position, 1908—. *Assoc. ed.*, Phytopathology. *b.* Woodbine, Ia., Mar. 9, 1880; *s.* LeRoy A. and Mary Elizabeth (Luke) E.; reared on farm; *m.* Marion Evelyn Sweet, Sept. 20, 1905; *c.* Elda May, Allene, Wilbur LeRoy. B.S., Univ. Neb., 1903; Ph.D., Cornell Univ., 1908. Sigma Xi.

Edgerton, Palmer R., co. agrl. agt., Court House, Rock Island, Ill.

Farmer, Ind., 1906–14; agrl. ext. serv., Purdue Univ., winters, 1912–3; instr. an. husb., Purdue Univ., 1914–6; present position, 1916—. *b.* Marion, Ind., Dec. 28, 1884; *s.* Jesse and Sarah (Shugart) E.; reared on farm; *m.* Mary Zoe McConnell, June 12, 1908; *c.* Jesse Clare, Janet Martelle, John Palmer. B.S.A., Purdue Univ., 1906.

Edinger, Paul Lincoln, co. agrl. agt., Carlisle, Pa.

b. Berks Co., Pa., Feb. 9, 1891; *s.* Levi T. and Sallie (Raudenbush) E.; reared on farm. B.S., Penn. State Coll., 1917. Alpha Zeta.

Edler, George Christian, invest. in seed marketing, Bur. Markets, U.S. Dept. Agr., Washington, D. C.

Asst. ed., Seed Reporter. *b.* Chicago, Ill., Dec. 13, 1889; *s.* Fred Carl and Adele Louise (Groll) E.; reared in town. B.S. A., Univ. Ill., 1911. Alpha Zeta.

Edminster, Albert Franklin, sci. asst. in pom., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Instr. agr. and chem., Kent's Hill Sem., Me., 1913–4; instr. hort., Ia. State Coll., 1916–7; present position, 1917—. *b.* New Bedford, Mass., Oct. 19, 1891; *s.* C. Franklin and Sarah Alberta (White) E.; reared in town and on farm; *m.* Elizabeth Freelove Talcott, June 11, 1917. B.S., Mass. Agr. Coll., 1913; M.S., Ore. Agr. Coll., 1915. Alpha Gamma Rho; Phi Kappa Phi.

Edmonds, Mary Elizabeth, prof. dom. sci., Mich. Agr. Coll., E. Lansing, Mich.

Instr. home econ. ext. div., Ohio State Univ., 1910–2; instr. Lewis & Clark High-Sch., Spokane, Wash., 1912–3; head home econ. dept., Univ. Mont., 1913–5; head dom. sci. dept., Mich. Agr. Coll., 1915—. *b.* Oberlin, O., Mar. 21, 1887; *d.* Robt. H. and Martha Ann (Gray) E.; reared in city. B.S., Ohio State Univ., 1910. Sigma Xi; Omicron Nu.

Edson, Howard Austin, path., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Instr. bact., Univ. Vt., 1906–8; asst. prof., 1908–10; present position, 1910—. Traveled in Europe and Philippines. *b.* Randolph, Vt., Aug. 14, 1875; *s.* Franklin Howard and Mary Eunice (Bell) E.; reared on farm; *m.* Lillian Sara Buck, June 21, 1906; *c.* Thelma Cecilia, Ralph Howard, Margaret May. B.S., Univ. Vt., 1906; M.S., 1910; Ph.D., Univ. Wis., 1913. Phi Beta Kappa; Sigma Xi; Phi Delta Theta.

Edwards, Frank Lawrence, supt. Watkinson Farm Sch., Hartford, Conn.

Farm operator, 1908–11; head agrl. dept., E. Me. Conference Sem., Bucksport, 1911–3; dir. voc. agr., Worthington, Chesterfield, Williamsburg, Mass., 1913–5; instr. agr., Petersham Agrl. High-Sch., Petersham, Mass., 1915–7; present position, 1917—. *b.* Boston, Mass., May 13, 1885; *s.* Ambrose H. and Ida M. (Strom) E.; reared in city; *m.* Edith J. Rushton, Sept. 28, 1910. B.S., Mass. Agr. Coll., 1908; Boston Univ., 1908. Phi Sigma Kappa.

Edwards, Howard, pres. R. I. State Coll., Kingston, R. I.

Assoc. princ. Bethel Military Acad., Va., 1878–80; teach. Bingham Sch., N. C., 1880–2; princ. Bethel Acad., 1882–4; princ. acad., Tuscumbia, Ala., 1884–5; prof. English and modern languages, Univ. Ark., 1885–90; Mich. Agr. Coll., 1890–1906; present position, 1906—. *b.* Fauquier Co., Va., Nov. 7, 1854; *s.* Francis Marion and Frances Lawson (Bland) E.; *m.* Elizabeth M. Smith, Jan. 5, 1881. M.A., Randolph-Macon Coll., 1876; studied Univ. Leipzig, 1877–8, the Sorbonne, Paris, 1891–2; LL.D., Univ. Ark., 1891, Brown Univ., 1914.

Eggleston, Joseph Dupuy, pres. Va. Poly. Inst., Blacksburg, Va.

Teach. public schs., Ga., Va., N. C., 1886–9; supt. schs., Asheville, N. C., 1891–1900; Prince Edward Co., Va.,

1903–5; state supt. public instr., 1906–13; chief field serv. in rural educ., U. S. Bur. Educ., Jan.–Jul. 1913; pres. Va. Poly. Inst., 1913—. Ed. and sec., Bur. Information and Publicity, Southern Educ. Bd., Univ. Tenn., 1902. *Auth.:* (with Bruere) The Work of the Rural School. *b.* Prince Edward Co., Va., Nov. 13, 1867; *s.* Joseph Dupuy and Anne Carrington (Booker) E.; reared on farm; *m.* Julia Johnson, Dec. 18, 1895; *c.* Elizabeth C., J. D. III. A.B., Hampden-Sidney Coll., 1886; A.M., 1892; LL.D., Washington and Lee Univ., 1917. Phi Beta Kappa; Beta Theta Pi.

Ehrhorn, Edward Macfarlane, chief div. plant insp., Bd. Agr. and For., Honolulu, Hawaii.

Asst. ent. and deputy quarantine officer, State Bd. Hort., Calif., 1890–1; co. ent. and hort. comnr., Santa Clara Co., 1892–1909; 1st deputy state comnr. hort. and quarantine officer, Calif., 1904–9; supt. ent., Bd. Agr. and For., Hawaii, 1909–17; chief div. plant insp., 1917—. Collaborator Fed. Hort. Bd., Washington. Fellow A. A. A. S. *b.* San Francisco, Calif., Jan. 24, 1862; *s.* Adolphus and Louisa Maria (Macfarlane) E. Educ. Hamburg, Germany, 1871–8; Grenchen, Switzerland, 1878–9; Brighton Coll., England, 1879–80; Stanford Univ., 1891.

Eichling, Henry Louis, prof. agron., Ia. State Coll., Ames, Ia.

Chg. farm crops, soils, farm manag., in 2-yrs. course, Ia. State Coll., 1911—. Sec. Ia. Corn and Small Grain Growers' Assoc. *b.* Paulding, O., Dec. 14, 1887; *s.* Henry L. and Sophia (Weidmann) E.; *m.* Louise Ahlbrecht. B.S.A., Ia. State Coll., 1911. Sigma Nu; Alpha Zeta.

Ekblaw, Karl John Theodore, prof. farm engin., Kans. State Agr. Coll., Manhattan, Kans.

Asst. agrl. engin., Univ. Ill., 1909–11; instr., 1911–3; assoc., 1913–6; present position, 1917—. *Auth.:* Farm Structures, 1913; Farm Concrete, 1917. Farm engin. ed., Farmers' Review, National Stockman, Capper Farm Papers. *b.* Rantoul, Ill., Jul. 14, 1884; *s.* Andrew and Ingrid (Johnson) E.; reared on farm; *m.* Alma Bertha Heuman, Aug. 14, 1913. B.S., Univ. Ill., 1909; M.S., 1913; M.E., Yale Univ., 1917. Gamma Alpha; Sigma Tau.

Eklof, Earl M., supt. Caldwell Substa. Exp. Farm, Caldwell, Ida.

Asst. farm crops, Univ. Ida., 1916; present position, 1917—. *b.* Sweden, Mar. 14, 1891 (naturalized as minor); *s.* U.P. and Hulda (Carlson) E.; reared on farm. B.S.A., Univ. Ida., 1916.

Eldredge, Ben R., asst. prof. dairying, Utah Agr. Coll., Logan, Utah.

Breeder Devon cattle, 1887–97; dairy farmer, 1900–15; present position, 1915—. *b.* Salt Lake City, Utah, May 4, 1866; *s.* Horace S. and Chloe A. (Redfield) E.; reared in town and on farm; *m.* Lizzie Sharp, Aug. 18, 1887; *c.* Ben A., James S. B.S.A. (hon.), Utah Agr. Coll., 1915.

Eleazer, James Malcolm, co. agrl. agt., Saluda, S. C.

Farm operator, 6 yrs.; insp. citrus canker eradication work, Bur. Plant Ind., U. S. Dept. Agr., 1916–7. *b.* Spring Hill, S. C., Dec. 19, 1895; *s.* H. G. and Mary C. (Welch) E.; reared on farm. B.S., Clemson Agr. Coll., 1916.

Eliot, Howard McKenny, chief rural econ. div., Tex. A. & M. Coll., College Station, Tex.

Instr. agrl. econ., Univ. Wis., 1912–4; ext. worker in rural econ., Tex. A. & M. Coll., 1914—. *b.* Lansing, Mich., Dec. 27, 1875; *s.* Silas and Mary (McKenny) E.; reared on farm; *m.* Edith Stewart, Aug. 24, 1904. A.B., Olivet Coll., 1902; M.A., Univ. Wis., 1912. Phi Alpha Pi.

Ellenberger, Howard Bowman, prof. an. and dairy husb., Univ. Vt., Burlington, Vt.

Farm supt., Mo., 1905–13; instr. dairy husb., Cornell Univ., 1914–7; assoc. prof., Univ. Vt., 1917–8; prof., 1918—. *Auth.:* (with W. W. Fisk) Ice Cream Laboratory Guide. *b.* Dallas, Ia., Nov. 15, 1882; *s.* Daniel P. and Julia (Yambert) E.; reared on farm; *m.* Margaret P. Flatt Mills, Dec. 29, 1910. B.S.A., Ia. State Coll., 1905; M.S.A., Cornell Univ., 1915; Ph.D., 1917.

Ellett, W. B., prof. agrl. chem., Va. Poly. Inst., Blacksburg, Va.

Instr. chem., Va. Poly. Inst., 1896–1900; asst. chem., Va. Exp. Sta., 1904–8; chem., 1908—; present position, 1915—. *b.* Montgomery Co., Va., Nov. 11, 1874; *s.* R. T. and S. (French) E.; reared in

small town. B.S., Va. Poly. Inst., 1894; M.S., 1896; Ph.D., Goettingen Univ., Germany, 1904.

Elliott, Charles Henry, co. agrl. agt., St. Albans, Vt.
Teach. poultry ext., Cornell Univ., winter, 1915; general farmer, 3 yrs. *b.* Merrifield, N. Y., June 30, 1889; *s.* Henry C. and Zulu M. (Van Liew) E.; reared on farm; *m.* Evelyn L. Nellis, Mar. 17, 1915. B.S., Cornell Univ., 1913.

Elliott, Norris Raymond, ext. hort., Univ. Ky., Lexington, Ky.
Asst. hort., Ohio State Univ., 1913–4; asst. prof. hort., Univ. Ky., 1914–5; ext. hort., 1915—. *b.* Chandlersville, O., Jul. 30, 1889; *s.* Harry and Evaline (Bevennaugh) E.; reared on farm; *m.* Anna Evans, Dec 12, 1917. B.Sc., Ohio State Univ., 1913. Phi Gamma Delta.

Ellis, Alexander Caswell, prof. philosophy of educ., Univ. Tex., Austin, Tex.
Adj. prof. pedagogy, Univ. Tex., 1897–1903; assoc. prof. sci. and art of educ., 1903–8; dir. ext. 1912–4, 1915–7; prof. philosophy of educ., 1908—. Mem. bd. visitors, U. S. Naval Acad., 1903–4. Fellow A. A. A. S. Mem. council S. Educ. Assoc. Pres. Tex. Nut-Growers' Assoc. *Auth.:* (with E. J. Kyle) Fundamentals of Farming and Farm Life. Introduced *Opuntia Ellisiana,* a hardy thornless cactus suitable for forage and for human consumption. *b.* Franklin Co., N. C., May 4, 1871; *s.* O. L. and Mary Louisa (McKnight) E.; reared on farm and in town; *m.* Mary Heard, 1901. A.B., Univ. N. C., 1894; Ph.D., Clark Univ., 1897. Phi Beta Kappa; Kappa Alpha.

Ellis, Alfreda, asst. in chg. girls' clubs, Univ. Me., Orono, Me.
b. Belfast, Me., May 12, 1892; *d.* Alfred Ginn and Annie Maria (Wilson) E. B.S., Univ. Me., 1917. Alpha Omicron Pi.

Ellis, Kenneth Nicholas, co. agrl. agt., Waverly, Va.
b. Waverly, Va., June 9, 1892; *s.* Stanley V. and Jennie (Burt) E.; reared on farm; *m.* Ann Leth Duncanson, Sept. 15, 1917. Student Va. Poly. Inst.

Ellison, Walter Montgomery Jr., co. agrl. agt., Silver City, N. Mex.
b. Uvalde, Tex., June 3, 1891; *s.* Walter M. and Georgie (Colman) E.; reared on farm. B.S.A., N. Mex. A. & M. Coll., 1915.

Ellsworth, John Orval, co. agrl. agt., Gooding, Ida.
Head. sci. dept., instr. chem. and agr., Ricks Acad., Rexburg, Ida., 1915–7. *b.* Providence, Utah, Nov. 15, 1891; *s.* Asa Chas. and Emily Eliza (Theurer) E.; reared on farm; *m.* Annie E. Merrill, Nov. 26, 1914. B.S., Utah Agr. Coll., 1917. Delta Nu.

Elmer, Manuel Conrad, assoc. prof. rural and applied sociol., Univ. Kans., Lawrence, Kans.
Prof. sociol. and econ., Fargo Coll., N. D., 1914–6; present position, 1916—. Special attention to social survey work. *Auth.:* Technique Social Surveys, 1917. *b.* Monroe, Wis., Dec. 5, 1886; *s.* John and Anne (Denier) E.; reared on farm; *m.* June Ashley, Sept. 3, 1914; *c.* Anne June. B.S., Northwestern Coll., 1911; A.M., Univ. Ill., 1912; Ph.D., Univ. Chicago, 1914.

Elser, Wilbur L., asst. to ext. dir., N. Mex. A. & M. Coll., State College, N. Mex.
Asst. in chg. farm cost accounting, Ohio Exp. Sta., 1909–14; asst. state leader chg. farm manag. dem., Purdue Univ., 1914–6; asst. state leader co. agt. work and farm manag. dem., N. Mex. A. & M. Coll., 1916–8; present position, 1918—. *b.* Crestline, O., Jul. 17, 1886; *s.* B. F. and Laura (McKeehen) E.; reared on farm; *m.* Ruby Louise Pitkin, June 6, 1911; *c.* Roger Pitkin, Elizabeth, Benjamin Franklin. B.S., Ohio State Univ., 1909.

[Ely, G. R., p. 310.

Embody, George Charles, asst. prof. aquiculture, Cornell Univ., Ithaca, N. Y.
Teach. sci., Del. Literary Inst., 1901–2; Bradford, Pa., high-sch., 1902–3; biol., Bethel Coll., Ky., 1903–6; Randolph-Macon Coll., Va., 1907–8; Butler Coll., Ind., 1910–1; present position, 1911—. *b.* Auburn, N. Y., Nov. 23, 1876; *s.* Daniel A. and Emma (Washburn) E.; reared in city; *m.* Madeline M. Riceman, Oct. 9, 1909; *c.* Daniel R. B.S., Colgate Univ., 1900; M.S., 1901; scholarship, Johns Hopkins Univ., 1907;

Ph.D., Cornell Univ., 1910. Delta Kappa Epsilon.

Emerson, Paul, soil bact., Ida. Exp. Sta., Moscow, Ida.
Soil bact., Md. Exp. Sta., 1917–8. *b.* Wilmington, Del., July 6, 1887; *s.* Fred E. and Orietta deForest (Gray) E.; reared on farm; *m.* Grace E. Reynolds, Jul. 22, 1916. B.S.A., Del. Coll., 1914; M.S.A., 1915; Ph.D., Ia. State Coll., 1917. Alpha Zeta; Phi Lambda Upsilon; Phi Kappa Phi; Omega Alpha.

Emerson, Rollins Adams, prof. plant-breeding, Cornell Univ., Ithaca, N. Y.
Hort., Off. Exp. Stas., U. S. Dept. Agr., 1897–9; prof. hort., Univ. Neb., 1899–1914; present position, 1914—. Vice-pres. Soc. Am. Naturalists, 1915. *Ed.*, Genetics. *b.* Jefferson Co., N. Y., May 5, 1873; *s.* C. D. and Mary C. (Adams) E.; reared on farm; *m.* Hattie Hardin, 1898; *c.* Thera, Sterling H., Eugene H., Myra. B.Sc., Univ. Neb., 1897; D.Sc., Harvard Univ., 1913; LL.D., Univ. Neb., 1917. Phi Beta Kappa; Sigma Xi.

Emmert, Valentine Meacham, co. agrl. agt., McPherson, Kans.
Farmer and stockman, Blue Rapids, Kans., 1901–8; farmer, Brogado, Tex., 1908–11; princ. sch., Doran, Minn., 1912–3; dir. agr., high-sch., Buffalo, Minn., 1913–6. *b.* Morristown, Ill., Feb. 9, 1880; *s.* Geo. S. and Laura Miriam (Meacham) E.; reared on farm; *m.* Anna McHugh, Nov. 22, 1910; *c.* Eolia, Merton. B.S.A., Kans. State Agr. Coll. 1901.

Engle, B. Homer, co. agrl. agt., Montrose, Pa.
Assoc. instr. agron., Penn. State Coll., 1915–6; agt. Susquehanna Co., 1916—. *b.* Harrisburg, Pa., Oct. 11, 1894; *s.* B. H. and Emma F. (Hershey) E.; reared on farm. B.S., Penn. State Coll., 1916. Phi Sigma Kappa.

Erdman, Henry Ernest, asst. prof. rural econ., Ohio State Univ., Columbus, O.
Grad. asst., Univ. Wis., 1916–7; present position, 1917—. *b.* Armour, S. D., Nov. 6, 1884; *s.* Gustav and Anna M. (Stuempges) E.; reared on farm; *m.* Irene Maw, May 26, 1917. B.S., S. D. State Coll., 1912.

Erf, Oscar, prof. dairying, Ohio State Univ., Columbus, O.
Instr. dairying, Ohio State Univ., 1894–8; manag. Straight Dairy Co., 1898–9; assoc. prof. dairy husb., Univ. Ill., 1899–1903; prof. dairy and an. husb., Kans. State Agr. Coll., 1903–7; prof. dairying, Ohio State Univ., 1907—. Del. Inter. Dairy Convention, Scavanunging, Holland. Sec. O. State Dairymen's Assoc. Traveled through Europe and Algiers. *Auth.:* Dairy Arithmetic; Dairy Fundamentals. *b.* Monroeville, O., Dec. 17, 1874; *s.* Philip and Dorothea (Heyman) E.; reared on farm; *m.* Alice L. Ashton, June 28, 1905; *c.* Lowell Ashton. B.S.A., Ohio State University, 1898. Sigma Xi; Alpha Zeta.

Erwin, Arthur Thomas, chief in truck crops, Ia. Exp. Sta., Ames, Ia.
Prof. hort., Ia. State Coll., and exp. truck crops, 1903—. Fellow A. A. A. S., Ia. Acad. Sci. Sec. Ia. Veg. Growers' Assoc. *Auth.:* Practical Farming and Gardening, 1908. Hort. ed., Iowa Homestead, Wisconsin Farmer, 1910–4. *b.* Fulton, Mo., Nov. 8, 1874; *s.* J. L. E.; reared on farm; *m.* Mary Turner, 1906; *c.* Doris, Howard Robt., Evalin. B.S., Univ. Ark., 1900; M.S., Ia. State Coll., 1901; cert. 4 yrs.' course gard., Mo. Bot. Gard. Kappa Alpha; Phi Kappa Phi.

Esplin, Alma Cox, co. agrl. agt., Cedar City, Utah.
b. Orderville, Utah. May 18, 1888; *s.* Henry Webster and Philena (Cox) E.; reared on farm; *m.* Cleo Luke, June 7, 1911; *c.* Oleen, Luella, Alma Lamar. B.S., Utah Agr. Coll., 1916.

Essig, Edward Oliver, asst. prof. ent., Univ. Calif., and co. agrl agt., Ventura, Calif.
Instr. ent., Univ. Calif., 1914–6; asst. prof., 1916—; farm adv., 1918—. Sec. Calif. State Comn. Hort., 1911–4; Ventura Co. hort. comnr., 1909–11; sec. Pacific Coast Branch, Am. Assoc. Econ. Ent., 1915—. *b.* Arcadia, Ind., Sept. 29, 1884; *s.* Monroe F. and Isabel (Todd) E.; reared on farm; *m.* Ethel M. Langford, June 13, 1910; *c.* Mary Isabel. B.S., Pomona Coll., 1909; M.S., 1912.

Estabrook, Leon Moyer, statistician and chief, Bur. Crop Estimates, U. S. Dept. Agr., Washington, D. C.
Teach. country schs., 2 yrs.; N. Tex.

Univ., 2 yrs. Farmer, Tex., 13 yrs., Md., 5 yrs. Clerk, War Dept., 1895–1903; stenographer, Bur. Plant Ind., 1904–5; chg. records, 1905–8; asst. chg. Off. Seed Distribution, 1909–13; chief clerk, Dept. Agr., 1913; present position, 1913—. Clerk Joint Com. of Congress to Invest. Business Methods in Exec. Depts. of Govt. Sec. Peoples' Gardens Assoc. of Washington, 1912. *b.* Rockford, Ill., Mar. 24, 1869; *s.* John Otis and Emma (Brown) E.; reared on farm; *m.* Nellie Louise Melling, May, 1901; *c.* Thelma Lee, Otis Woodrow. Student Corcoran Sci. Sch., Berlitz Sch. Languages, Washington; LL.B., Georgetown Law Sch., 1897.

Esten, William Merrill, prof. bact. and exp. soil bact., Conn. Agr. Coll., Storrs, Conn.
Asst. biol., Wesleyan Univ., 1894–1906; prof. biol., Chautauqua Coll., 1897–8; instr. histology, Brooklyn Inst. Arts and Sci., Cold Spring Harbor, 1895; present position, 1906—. Special agt., U. S. Dept. Agr. to World's Fair, Chicago, 1893. *b.* Glendale, R. I., Aug. 27, 1862; *s.* Wm. Brown and Adaline (Taft) E.; reared on farm and in town; *m.* Bertha Lelia Langdon, Dec. 24, 1899; *c.* Lelia Merrill. B.S. Wesleyan Univ., 1894; M.S., 1896. Phi Beta Kappa.

Etheridge, William Carlyle, prof. farm crops, Univ. Mo., Columbia, Mo.
Asst. agron., N. C., Exp. Sta., 1907–10; assoc. agron., 1910–1; grad. asst. farm crops, Cornell Univ., 1912–5; prof. agron., Univ. Fla., 1915–6; present position, 1916—. *b.* Roanoke Isl., N. C., June 30, 1885; *s.* Daniel Warren and Humantla (Meekins) E.; reared on farm; *m.* Fanny Elizabeth Cassel, Aug. 15, 1917. B.S.A., N. C. A.&M. Coll., 1906; M.S., Cornell Univ., 1912; Ph.D., 1915. Sigma Xi; Gamma Sigma Delta.

Etherton, William Alonzo, writer and agrst., Ava, Ill.
Arch. in chg. farm structures, U. S. Dept. Agr., 1912–5; prof. arch. engin., Okla. A. & M. Coll., 1908–12; prof. rural arch., Kans. State Agr. Coll., 1915–7; writer on farm building subjects, 1918—. *Auth.:* Farm Houses, 1917. *b.* Jackson Co., Ill., Dec. 11, 1874; *s.* A. M. and Mary (Henson) E.; reared on farm; *m.* Sadie Dean, Jan. 10, 1905; *c.* Murray Dean. B.S., Univ. Ill., 1904; M. of Arch., 1914. Sigma Xi; Phi Kappa Phi.

Eustace, Harry J., prof. hort., Mich. Agr. Coll., E. Lansing, Mich.
U. S. Food Administration, Washington, 1917—. *b.* Rochester, N. Y., Apr. 24, 1877; *s.* Joshua H. and Bell (Thompson) E.; reared in city and on farm; *m.* Eugertha Emily Lawrence, Oct. 19, 1907. B.S., Mich. Agr. Coll., 1901; Mast. Hort., 1911 (hon.).

Evans, Albert Ray, grain marketing invest., Bur. Markets, U. S. Dept. Agr., 302 Postal Bldg., Kansas City, Mo.
Asst. agron., Univ. Mo., 1912–4; instr. farm crops, 1914–6. *b.* Winterset, Ia., Dec. 22, 1887; *s.* Alex and Katherine (Allen) E.; reared on farm. B.S., Okla. A. & M. Coll., 1912. Gamma Alpha; Alpha Zeta.

Evans, Harold James, co. agrl. agt., Mineola, N. Y.
Mem. exhibition com., N. Y. State Potato Growers' Assoc., 1918—. *b.* Broadalbin, N. Y., Jan. 17, 1893; *s.* Fred and Lucy (Gray) E.; reared on farm; *m.* Lizzie Amelia Brown, Nov. 29, 1917. B.S., Cornell Univ., 1917. Alpha Gamma Rho.

Evans, Leon Merrill, co. agrl. agt., Chillicothe, O.
b. Jackson, O., Nov. 5, 1892; *s.* Gomer C. and Minnie S. (McClure) E.; reared on farm; *m.* Florence M. Brown, Apr. 10, 1917. B.S.A., Ohio State Univ., 1916.

Evans, Robert James, state leader co. agts. and asst. dir. ext. div., Utah Agr. Coll., Logan, Utah.
Chg. dry-farming ext., Utah Agr. Coll., 1912–3; present position, 1913—. *b.* Lehi, Utah, July 2, 1881; *s.* Abel John and Louisa Emeline (Zimmerman) E.; reared in small city; *m.* Hazel Stallings, Aug. 21, 1907; *c.* Robt. John, Helen. B.S.A., Utah Agr. Coll., 1909; Ph.D., Cornell Univ., 1912. Sigma Xi; Gamma Sigma Delta.

Evans, Samuel Ernest, co. agrl. agt., Bennettsville, S. C.
Instr. agr., agrl. high-sch., Eros, La., 1910–2; instr. agr., La. Ind. Inst., Ruston, 1913–4; farmer, 1915—. *b.* New Zion, S. C., Feb. 27, 1887; *s.* John Stephen

and Hattie (Epps) E.; reared on farm. B.S., Clemson Agr. Coll., 1910; M.S., Univ. Wis., 1914.

Evans, Walter Harrison, chief insular stations, U. S. Dept. Agr., Washington, D. C.

Asst. bot., Wabash Coll., 1887–90; bot. Eli Lilly Co., Indianapolis, Ind., 1890–1; special agt., U. S. Dept. Agr., 1891–2; present position, 1902—. Fellow A. A. A. S. Del. to Inter. Conferences on For., Hort. and Exp. Stas., Paris, 1900. Survey of Alaska, 1897–8; Guam, 1908. Bot. ed., Experiment Station Record, 1893—. *b.* Delphi, Ind., Jan. 3, 1863; *s.* Joseph and Catherine (Bricker) E.; reared on farm; *m.* Bessie Binford, Oct. 22, 1890; *c.* Margaret B. A.B., Wabash Coll., 1887; M.A., 1889; Ph.D., 1896. Sigma Chi.

Everett, Charles Horatio, ed. Wisconsin Agriculturist, Racine, Wis.

Farmer until 1895; ed. Wisconsin Agriculturist, 1895—. Ex-pres. Wis. State Dairymen's Assoc.; ex-sec. Wis. State Bd. Agr.; mem. Wis. State Bd. Agr., 1905—; pres. Wis. Live-Stock Sanitary Bd. Mem. Wis. Assembly, 1912; Wis. Senate, 1914. *b.* Rock Co., Wis., Mar. 22, 1855; *s.* Josiah Milton and Mary E. (Ross) E.; reared on farm; *m.* Angerona Barningham, 1878; 2d, Grace L. Lang, 1910; *c.* Milton Wayne.

Everett, George Abram, prof. ext. teach., Cornell Univ., Ithaca, N. Y.

Teach. Lawrenceville Sch., N. J., 1902–4; instr., Cornell Univ., 1904–6; asst. prof., 1906–7; teach. Flushing high-sch., 1907–9; asst. prof., Cornell Univ., 1910–5; prof., 1915—. *b.* Lawrence, N. Y., Apr. 18, 1875; *s.* Luther and Martha (Abram) E.; reared on farm; *m.* Anna McEwen, Nov., 1907; *c.* Martha, Richard. A.B., Cornell Univ., 1899; LL.B., 1901.

Eves, J. Parvin, co. agrl. agt., Malcolm, Ia.

Asst. state dairy expert, Ia. State Dairy Assoc., 1916–8. *b.* Springdale, Ia., June 7, 1894; *s.* J. Walter and Amanda A. (Worthington) E.; reared on farm; *m.* Edna Maurine Johnson, Apr. 12, 1918. B.S., Ia. State Coll., 1916. Alpha Zeta.

Evvard, John Marcus, prof. an. husb., Ia. State Coll. and chg. an. husb. sect., Exp. Sta., Ames, Ia.

Asst. to dean and dir. Coll. Agr. and Exp. Sta., Univ. Mo., 1907–10; in chg. and asst. chief an. husb., Ia. Exp. Sta., 1910–8; chief in swine production and nutr., 1914—; assoc. prof. an. husb., Ia. State Coll., 1916–8; prof., 1918—. Chm. Swine Comn. and mem. adv. com. on swine, U. S. Food Administration, 1917. Vice-pres. Am. Soc. An. Production, 1916–7, pres., 1918. *Auth.:* Feeding Hogs for Profit, 1913. Contributing ed., National Swine Magazine, 1909–10; Berkshire World and Corn Belt Stockman, 1915–6; Swine World, Duroc Bulletin, 1918. *b.* near Saunemin, Ill., Nov. 6, 1884; *s.* John B. and Mary (Leitel) E.; reared on farm; *m.* Mattie Casey Cooper, Aug. 10, 1911; *c.* Mary Margaret, John Cooper. B.S.A., Univ. Ill., 1907; M.S.A., Univ. Mo., 1909. Sigma Xi; Phi Lambda Upsilon; Phi Kappa Phi; Gamma Sigma Delta; Alpha Zeta.

Ewan, Avory Early, supt. exp. fields, Ky. Exp. Sta., Lexington, Ky.

Supt. Exp. Sta. farm, Univ. Ky., 1910–3; supt. exp. fields, 1913—. *b.* Helena, Ky., Nov. 13, 1884; *s.* Avory Mitchell and Lydia Ann (Chappell) E.; reared on farm; *m.* Mary Alice Lovell, Apr. 16, 1916; *c.* Lydia Allison. B.S.A., Univ. Ky., 1910. Alpha Tau Omega.

Ewing, Henry Ellsworth, assoc. prof. zool., Ia. State Coll., Ames, Ia.

Asst. ent,, Ore. Exp. Sta., 1911–4; asst. prof. zool., Ia. State Coll., 1914–6; assoc. prof., 1916—. Fellow A. A. A. S., Ia. Acad. Sci. Farming, 1 yr. *b.* Arcola, Ill., Feb. 11, 1883; *s.* J. H. and A. L. (McDonald) E.; reared on farm; *m.* Bertha M. W. Riley; *c.* Paul McDonald. A.B., Univ. Ill., 1906; M.A., 1908; Ph.D., Cornell Univ., 1911. Sigma Xi; Phi Delta Theta.

F

Fagan, Frank Nelson, asst. prof. pom., Penn. State Coll., State College, Pa.

Present position, 1912—. Sec. State Hort. Assoc. of Pa., 1916–7. *b.* Richmond, Ind., Sept. 29, 1888; *s.* Joseph Atwood and Mary Ann (Kitson) F.; reared on farm; *m.* Etta Wingate Jones,

Apr. 25, 1912; *c.* Anne Bourne. B.Sc., Ohio State Univ., 1910. Alpha Gamma Rho.

Fain, John Richard, prof. agron., Univ. Ga., Athens, Ga.

Farm supt., Univ. Tenn., 1898–1904; asst. prof. agr., Va. Poly. Inst., 1904–7; present position, 1907—. Farming, 1893–8. *b.* Jefferson City, Tenn., Dec. 7, 1873; *s.* Samuel N. and Sallie (Fain) F.; reared on farm. B.S., Univ. Tenn., 1900.

Fairchild, David, agrl. explorer in chg. Off. Foreign Seed and Plant Introduction, U. S. Dept. Agr., Washington, D. C.

Sect. Veg. Path., U. S. Dept. Agr., 1889–94; present position, 1898—. Traveled with Barbour Lathrop on trip of reconnaisance preparatory to work of plant introduction, through Dutch E. Indies, Australia, New Zealand, South Sea Isls.; agrl. explorer through S. America, N. and S. Africa, China, Japan, Europe, 1898–1903. Pres. Am. Genetic Assoc.; mem. bd. of managers, Nat. Geographic Soc. *b.* Mich. Agr. Coll., Apr. 7, 1869; *s.* Geo. T. and Charlotte Pearl (Halsted) F.; reared in suburbs; *m.* Marion Hubbard Bell, Apr. 25, 1905; *c.* Graham Bell, Barbara Lathrop, Nancy Bell. B.S., Kans. State Agr. Coll., 1888; M.S., 1893; post grad. work in botany Ia. State Agr. Coll., 1888; Rutgers Coll., 1889; Naples Zool. Sta., 1893; Breslau and Berlin, 1894; Bonn, 1895; Münster, 1895; Palermo Bot. Gard., 1894; Buitenzorg Bot. Gard., 1896; D.Sc., Oberlin Coll., 1915.

Fairchild, Thomas Everett, princ. and teach. agr., E. Corinth Acad., Me.

Practice teach., Univ. Me., 1916–7; present position, 1917—. Pastor Methodist Episcopal Church, E. Corinth, Me., 1915—. *b.* Honey Lake, Calif., Apr. 8, 1894; *s.* Thos. Manley and Emma Jane (Maxwell) F.; reared on farm. B.S., Univ. Me., 1916; M.S., 1917. Phi Kappa Sigma; Phi Sigma.

Falkner, Mordis, farmer and hort., Waco, Tex.

Sec.-treas. Tex. Farmers' Congress. Formerly pres. Tex. Nut Growers' Assoc.; pres. Tex. State Hort. Soc. *b.* Waco, Tex., Feb. 25, 1882; *s.* Calton and Emma (Kellum) F.; reared on farm; *m.* Jessie Riley, Apr. 7, 1908; *c.* James Calton. Student Baylor Univ., Waco, Tex.

Farley, Arthur James, asst. prof. hort., Rutgers Coll., New Brunswick, N. J.

Asst. hort., N. J. Exp. Sta., 1908–11; assoc. hort. in ext., 1912–4; instr. hort., Rutgers Coll., 1914–6; asst. prof., 1916—. *b.* Waltham, Mass., Sept. 2, 1885; *s.* Frederick W. and M. Wheatie (Mac Donald) F.; reared on farm; *m.* Edith B. McLaury, June 3, 1914; *c.* Margaret W. B.Sc., Mass. Agr. Coll., 1908.

Farr, Chester Carroll, co. agrl. agt., Everett, Wash.

Teach., Sunnyside high-sch., Wash., 1913–7; distr. agrst., 2 yrs. *Auth.:* Laboratory Manual in Field Crops. *b.* Pullman, Wash., Oct. 14, 1890; *s.* James Craven and Alice Gertrude (Heywood) F.; reared on farm; *m.* Iva Haines, June 22, 1913; *c.* Donald Haines, Edythe Maxine. B.S.A., Wash. State Coll., 1913. Gamma Delta.

Farrington, Edward Holyoke, prof. dairy husb., Univ. Wis., Madison, Wis.

Chem., Conn. Exp. Sta., New Haven, 1882–8; Off. Exp. Stas., U. S. Dept. Agr., 1889–90; chem., Ill. Exp. Sta., 1890–4; present position, 1894—. *Auth.:* (with Woll) Testing Milk and Its Products 1897; 12 books on dairying for correspondence coll. *b.* Brewer, Me., Dec. 20 1860; *s.* Joseph R. and Ellen (Holyoke) F.; reared on farm; *m.* Maud Wyckoff, 1890; 2d, Margaret Tate, 1898; *c.* Isabel. B.S., Univ. Me., 1881; M.S., 1883. Sigma Xi; Alpha Zeta.

Faville, Alpheus Davis, prof. an. husb. and dean Coll. Agr. and dir. Exp. Sta., Univ. Wyo., Laramie, Wyo.

Prof. an. husb. and husbandman Exp. Sta., Univ. Wyo. 1908—; present position, 1918—. *b.* Lake Mills, Wis., Feb. 27, 1880; *s.* Stoughton W. and Emma (Myers) F.; reared on farm; *m.* Jean MacGregor Douglas, Jul. 22, 1913. B.S., Lawrence Coll., 1902; M.S., Univ. Wis., 1915. Phi Beta Kappa; Beta Theta Pi; Alpha Zeta.

Fawcett, Howard Samuel, assoc. plant path., Univ. Calif., Riverside, Calif.

Asst. bot. and hort., Univ. Fla., 1905–6; asst. plant path., Fla. Exp. Sta., 1906–8; plant path., 1908–12; plant path., State

Comn. of Hort., Calif., 1912–3; present position, 1913—. *b.* Salem, O., Apr. 12, 1877; *s.* Thos. F. and Sidney A. (Bonsall) F.; reared on farm; *m.* T. Helen Tostenson, 1909; *c.* Rosamond A. B.S., Ia. State Coll., 1905; M.S., Univ. Fla., 1908; Ph.D., Johns Hopkins Univ., 1918.

Fay, John Hastings, co. agrl. agt., Middletown, Conn.
Barnes Bros. Nursery Co., Yalesville, Conn., Apr.–Nov., 1906; fruit and poultry farmer, 1906–8; agrl. instr., Smith's Agr. Sch., Northampton Mass., 1909–10; Northboro Agr. Sch., 1912–3; Essex Co. Agr. Sch., Hathorne, Mass., 1913–5; agt. Middlesex Co., Conn., 1915—. *b.* Princeton, Mass., Aug. 19, 1880; *s.* Arthur E. and Anna C. (Harthan) F.; reared on farm; *m.* Caroline W. Rogers, Sept. 30, 1914. B.S.A., Ont. Agr. Coll., Toronto Univ., 1912.
[**Felt, E. P.,** p. 310.

Felton, Ralph Almon, asst. in Presbyterian country church work, 156 Fifth Ave., New York City.
Teach. rural sch., 1 yr.; high-sch., 1 yr.; Syrian Protestant Coll., Beirut, Syria, 3 yrs. Traveled in the Orient. *Auth.:* A Study of a Rural Parish, 1915. *b.* Arkansas City, Kans., Jul. 26, 1882; *s.* Marshall A. and Isabelle (Nicholas) F.; reared on farm; *m.* Mary Blanche Shimer, Aug. 19, 1914; *c.* Mary Shimer. Ph.B., Southwestern Coll., Winfield, Kans., 1905; M.A., Columbia Univ. 1912.

Fenton, Frederick Charles, asst. prof. agrl. engin., Univ. Mo., Columbia, Mo.
Second Lieut., Field Artillery, U. S. Army, 1918— *b.* Black Hawk Co., Ia., June 30, 1891; *s.* August C. and Jennie (Craig) F.; reared on farm. B.S., Ia. State Coll., 1914. Alpha Zeta; Delta Sigma Rho.
[**Ferguson, A. M.,** p. 310.

Ferguson, John Arden, prof. for., Penn. State Coll., State College, Pa.
Instr. for., Penn. State Coll., 1908–11; prof. for., Univ. Mo., 1911–3; present position, 1913—. Fellow A. A. A. S. *b.* Canandaigua, N. Y., Dec. 23, 1873; *s.* Harrison B. and Ella (Wader) F.; reared in town; *m.* Susan Kathryn Becker, Sept. 14, 1911 (d. 1915); *c.* Eleanor, John Becker. A.B., Hamilton Coll., 1896; A.M., 1902; M.F., Yale For. Sch., 1908. Chi Psi.

Ferguson, William H., co. agrl. agt., Waynesville, N. C.
Supt. Pilot Mt. State High-Sch., 1915. *b.* Ferguson, N. C., Nov. 30, 1885; *s.* Lindsay and Sarah F.; reared on farm; *m.* Myrtle Dean, June 8, 1915; *c.* Wm. Jr., Dorothy Dean. A.B., Univ. N. C., 1910.

Fernald, Henry Torsey, prof. ent. and ent. Exp. Sta., Mass. Agr. Coll., Amherst, Mass.
Prof. zool., Penn. State Coll., 1890–9; state zool., Pa., 1898–9; prof. ent., Mass. Agr. Coll., 1899—; chm. Sch. Sci., 1913—; ent., Exp. Sta., 1910—; state nursery insp., Mass., 1902–18. Fellow A. A. A. S. *b.* Litchfield, Me., Apr. 17, 1866; *s.* Chas. Henry and Maria Elizabeth (Smith) F.; *m.* Minna R. Simon, June 9, 1890. B.S., Univ. Me., 1885; M.S., 1888; Ph.D., Johns Hopkins Univ., 1890.

Ferrin, Evan Fisher, assoc. prof. an. husb., Ia. State Coll., Ames, Ia.
Instr. an. husb., Ia. State Coll., 1911; instr. an. husb., Tex. A.&M. Coll., 1912; asst. prof. an. husb., Ia. State Coll., 1912; assoc. prof., 1913—. *b.* Cherokee Co., Ia., Feb. 9, 1888; *s.* Joseph L. and Elizabeth (Fisher) F.; reared on farm; *m.* Stella Drennan, June 22, 1912. B.S., Ia. State Coll., 1911.

Fetterolf, Howard C., state superv. agrl. educ., 22 Union Trust Bldg., Harrisbug, Pa.
Farm operator, 1914—. *b.* Mifflinville, Pa., Aug. 16, 1887; *s.* P. A. and Isabelle (Williamson) F.; reared on farm; *m.* Julia A. Lillibridge, Aug. 12, 1914. Student Penn. State Coll.

Fieldner, Carl G., co. agrl. agt., Bryan, O.
Farm manag., 1912–7. *b.* Ney, O., Apr. 21, 1889; *s.* Chas. and Ellen (Giuther) F.; reared on farm; *m.* Huldah Christman, Dec. 17, 1914; *c.* Elizabeth Jane. B.S.A., Ohio State Univ., 1912. Delta Theta Sigma.

Fields, John, ed. Oklahoma Farmer, 1125 N. Robinson Ave., Oklahoma City, Okla.
Asst. chem., Penn. Exp. Sta., 1891–4; ast. chem., Okla. Exp. Sta., 1896–9; dir. and chem., 1899–1906. Del. Republican Nat. Convention, 1916; Republican candidate for governor Okla., 1914.

Auth.: Sure Feed Crops, 1912. *Ed.*, Oklahoma Farm Journal, 1901–15; Oklahoma Farmer, 1915—. *b.* near Davenport, Ia., Jul. 29, 1871; *s.* David T. and Sarah (Mosser) F.; reared on farm; *m.* Caro Chamberlain Emerson, Jul. 14, 1900. B.S., Penn. State Coll., 1891. Phi Kappa Phi.

Filley, H. Clyde, prof. rural econ., Univ. Neb., Lincoln, Neb.

Supt. public schs., Bancroft, Neb., 1903–6; Albion, 1906–9; instr. farm manag., Univ. Neb., 1911–2; asst. prof., 1912–4; prof. and head dept. rural econ., 1914—. Farm operator, 1906–11. Rep. Gage Co., Neb. Legislature, 1911. *b.* near Filley, Neb., Dec. 27, 1878; *s.* Elmore C. and Annette (Foster) F.; reared on farm; *m.* Creta Warner, Oct. 11, 1911; *c.* Vernon W., Marjorie, Edith. A.B., Univ. Neb., 1903; A.M., 1911.

Filson, James Edwin, land titles, 10 Main St., Champaign, Ill.

Sec. Ill. Abstracters' Assoc., 1913–8. Lect. *Auth.:* Fil's Filosophy on Land Titles. *b.* Caldwell Co., Mo., Oct. 28, 1883; *s.* Thos. A. and Zelma (Adams) F.; reared in town; *m.* Lena Will, Dec. 26, 1906; *c.* Kathleen Louise, James Hugh, Beth. LL.B., Univ. Ill., 1907.

Findlay, Hugh, asst. in visual instr., U. S. Dept. Agr., Washington, D. C.

Prof. hort. and agrl. bot., N. Y. State Sch. Agr., Morrisville, 1910–4; prof. hort., Syracuse Univ., 1914–8; dir. agr., Nat. Serv. Sch., Washington, 1918 (short course); present position, 1918—. Practical gard. and nurseryman, 11 yrs. *Auth.:* Mental Agriculture, 1913; House Plants, Their Care and Culture, 1916; Practical Gardening, 1918. *b.* Scotland, Sept. 28, 1879 (immigrated 1881); *s.* Francis and Christina (Morton) F.; reared in town; *m.* Mabel L. Chase, Jul. 5, 1916. B.S.A., Syracuse Univ.; studied Clark Coll. and Cornell Univ.

Finley, John Ford, co. agrl. agt., Hailey, Ida.

Teach. agr., Neb. high-sch., 2 yrs. *b.* Springville, Utah, Dec. 14, 1892; *s.* A. W. and Mary (Chase) F.; reared on farm. B.S.A., Utah Agr. Coll., 1915. Sigma Alpha.

Finley, Joseph Orton, supt. Home Farm, Seymour, Ill.

Sec. Ill. Sheep Breeders' Assoc. *b.* Oneida, Ill., Dec. 18, 1874; *s.* J. Alex and Mary E. (Cox) F.; reared on farm; *m.* Annie Stanley Fox, Dec. 27, 1904; *c.* Charlotte, Sara Elizabeth, Ann Josephine. B.S., Univ. Ill., 1917. Alpha Zeta.

Fippin, Elmer Otterbein, ext. prof. soil tech., Cornell Univ., Ithaca, N. Y.

Asst. Bur. Plant Ind., U. S. Dept. Agr., 1900–1; asst. Bur. Soils, Dept. Agr., 1901–5; asst. prof. soil tech., Cornell Univ., 1905–8; prof., 1908—. First pres. N. Y. State Drainage Assoc; hon. vice-pres. Nat. Drainage Congress for N. Y. Del. to Nat. Conservation Congress, 1912, 1916. Mem. Bd. Visitors, Ohio State Univ., 1917–22. Farm operator. *Auth.:* (with Lyon) Principles of Soil Management 1909; (with Lyon and Buckman) Soils, Their Properties and Management 1915. *b.* Columbus, O., Sept. 18 1879; *s.* John and Sidney Anne (Holt) F.; reared on farm; *m.* Florence Ellen Postle Nov. 21 1901; *c.* Walter Russell, Wm. Howard, James Elmer, Julia Anne. B.S.A., Ohio State Univ., 1900; grad. student Cornell Univ., 1904–5. Alpha Zeta.

Firor, Guy Wisotzkey, superv. ext. schs., Univ. Ga., Athens, Ga.

Instr. hort., Md. Agr. Coll., 1907–8; present position, 1910—. Chg. farmers' insts., ext. schs. and fair exhibits. *b.* Thurmont, Md., May 7, 1886; *s.* Wm. Leonard and Anne Catharine (Wisotzkey) F.; reared on farm; *m.* Helen May Williar, Nov. 17, 1910; *c.* Sarah Elizabeth, Helen Dorothy, Guy Wisotzkey Jr. B.S., Md. Agr. Coll., 1907; M.S.A., 1908.

Firor, John William, junior prof. hort., Univ. Ga., Athens, Ga.

Instr. and commandant of cadets, Bethel Military Acad., Warrentown, Va., 1908–10; asst. hort., W. Va. Exp. Sta., 1911–2; present position, 1912—. *Ed.*, orchard and garden dept., Southern Fruit Grower. 1st Lieut., 336 Field Artillery, U. S. Army, 1917—. *b.* Thurmont, Md., Sept. 23, 1887; *s.* Wm. L. and Anne Catharine (Wisotzkey) F.; reared on farm. B.S., Md. Agr. Coll., 1908.

Fischer, George Lincoln, invest. in handling, transportation and storage of fruits and vegetables, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

b. New York City, Oct. 1, 1892; *s.* Wm. Henry and Martha Rose (Barchfeld) F.; reared on farm and in city. B.S., Cornell Univ., 1913. Delta Alpha; Alpha Delta Phi.

Fish, Don E., co. agrl. agt. and asst. state leader, Mt. Pleasant, Ia.

Instr. sci. and agr., Beaverhead Co. high-sch., Dillon, Mont. *b.* Adel, Ia., Apr. 22, 1880; *s.* J. S. and Mary J. (Couch) F.; reared on farm; *m.* Belle Osborn, June 1, 1909; *c.* Donald, Doris, Chas., James, Harriet. B.S.A., Ia. State Coll., 1906. Alpha Zeta.

Fish, Ernest Ellsworth, co. agrl. agt., Indiana, Pa.

Instr. an. husb., Mass. Agr. Coll., 2 yrs. In U. S. Army, 1918—. *b.* Wyalusing, Pa., Sept. 7, 1892; *s.* Clarence W. and Lottie (Ellsworth) F.; reared on farm. B.S., Penn. State Coll., 1915; M.S., Mass. Agr. Coll., 1917.

Fishburne, Harry Proctor, assoc. prof. agrl. chem., Univ. Ida., Moscow, Ida.

Asst. chem., Penn. Exp. Sta., 1907–9; asst. chem., Ida. Exp. Sta., 1909–11; asst. prof. agrl. chem., Univ. Ida., 1911–6; assoc. prof., 1916—. *b.* Roanoke, Va., May 4, 1882; *s.* James Addison and Mary Louise (Boone) F.; reared in city; *m.* Frances Amanda Butterfield, Dec. 26, 1912; *c.* John Tipton, James Butterfield. B.A., Univ. Va., 1904; M.A., 1907.

Fisher, John Welton Jr., invest., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

b. Milwaukee, Wis., Feb. 13, 1889; *s.* John Welton and Emma Jane (McKnight) F.; reared in city; *m.* Jeane Avery, Sept. 12, 1914; *c.* Jeane Avery. A.B., Williams Coll., 1911; M.S., Mich. Agr. Coll., 1914. Phi Delta Theta.

Fisher, Martin Luther, prof. agron. in chg. dept. and asst. chief soils and crops, Purdue Univ., LaFayette, Ind.

Auth.: (with Cotton) Agriculture for Common Schools. *b.* near Murray, Ind., Oct. 24, 1871; *s.* Samuel and Margaret Jane (Crawford) F.; reared on farm; *m.* Mary Ellen Fishbaugh, May 26, 1894; *c.* Beatrice Louise, Barbara Catherine. B.S.A., Purdue Univ., 1903; M.S., Univ. Wis., 1911. Alpha Zeta; Sigma Pi.

[Fisher, O. S., p. 311.

Fisk, Walter W., asst. prof. dairy ind., Cornell Univ. Ithaca, N. Y.

Auth.: (with Thom) Book of Cheese, 1918. *b.* Oswego Center, N. Y., Jan. 1, 1888; *s.* Chas. A. and Effie M. (Warner) F.; reared on farm; *m.* Susan M. Edwards, Apr. 10, 1912. B.S.A., Cornell Univ., 1910; M.S.A.

Fiske, George Burnap, market invest., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Agrl. ed., Mass. Ploughman, 1894–8; asst. ed., Farm and Home, New England Homestead, 1898–1903; ed. American Cultivator, 1903–15; editorial correspondent, Rural New-Yorker, 1915–7. *Auth.:* Poultry Feeding and Fattening, 1896; (co-author) Rhubarb Culture, 1900; Prize Gardening, 1900; Frank of Peach Hill, 1915. Traveled in Europe, 1901. *b.* Holliston, Mass., Feb. 1, 1868; *s.* Francis F. and Ellen L. (Burnap) F.; reared on farm; *m.* Ida Amelia Leonard, Nov. 9, 1902. A.B., Boston Univ., 1890. Delta Tau Delta.

Fiske, George Walter, jr. dean, Grad Sch. Theol., Oberlin Coll., Oberlin, O.

Ordained Congregational ministry, 1898; pastor, Huntington, Mass., 1898–1900; S. Hadley Falls, Mass., 1900–3; High St. Church, Auburn, Me., 1903–7; prof. practical theol., Oberlin Coll., 1907—; present position, 1908—. Pingree Lectureship, Boston Univ., 1918. *Auth.:* Boy Life and Self Government, 1910; The Challenge of the Country, 1912; co-author other books. *Assoc. ed.,* Pilgrim Press. *b.* Holliston, Mass., June 3, 1872; *s.* Geo. Batchelder and Ada M. (Perry) F.; reared in town; *m.* Alice M. Stewart, Aug. 1, 1898; *c.* Margaret Stewart. A.B., Amherst Coll., 1895; A.M., 1898; B.D., Hartford Theol. Sem., 1898. Phi Beta Kappa; Phi Delta Theta.

Fitch, C. L., ext. assoc. prof. truck-gard., Ia. State Coll., Ames, Ia.

Dairy farmer and creamery supt., 1893–1903; potato and sugar-beet grower, Greeley, Colo., 1903–9; potato specialist, Colo. Exp. Sta., 1909–13; ext. veg. specialist, Ia. State Coll., 1913—. Chm.

Com. on Instr., Potato Assoc. of Am.; sec. and organizer Ia. Truck-Growers' Assoc. Six mos. travel in Europe,; mem. Appel party in potato regions, 1914. In Army Y. M. C. A. Serv., 1918—. *b.* Chas. City, Ia., Mar. 29, 1873; *s.* L. P. and Martha (Baker) F.; reared in town and on farm; *m.* Blanch Messinger, Sept. 1, 1900; *c.* Harvey C., Naomi O. M.A., Grinnell Coll., 1913.

Fitch, Clifford Penny, chief Div. Vet. Med., Univ. Minn., University Farm, St. Paul, Minn.

Prof. bact., Cornell Univ., 1911–7; present position, 1917—. *Auth.:* Manual of Bacteriology, 1915. *b.* Sauquoit, N. Y., Jul. 1, 1884; *s.* Menzo and Cora L. (Penny) F.; reared on farm; *m.* Florence Lilly Adams, Jul. 15, 1911; *c.* Alva Farnham, James Adams. B.S., Hamilton Coll., 1906; M.S., 1909; D.V.M., Cornell Univ., 1911. Phi Beta Kappa; Sigma Xi.

Fitch, James Burgess, assoc. prof. dairying, Kans. State Agr. Coll., Manhattan, Kans.

Asst. dairying, Kans. State Agr. Coll., 1910–1; instr., 1911–2; asst. prof., 1912–4; assoc. prof., 1914—. Sec.-treas. Kans. State Dairy Assoc. *b.* near Huntertown, Ind., June 26, 1888; *s.* D. N. and Emma (Belle) F.; reared on farm and in town; *m.* Alice Rakestraw, Dec. 26, 1912; *c.* Wm. David, Marjory Jane. B.S., Purdue Univ., 1910. Sigma Xi; Phi Kappa Phi; Alpha Zeta; Alpha Gamma Rho.

FitzGerald, Nugent E., assoc. prof. agrl. educ., Tex. A. & M. Coll., College Station, Tex.

Teach. rural sch., Union, Mo., 1909–10; princ. high-sch., Potosi, 1912–3; asst. bact., Univ. Mo., 1914–5; instr. agrl. educ., Univ. Tex., 1915–8; present position, 1918—. *b.* Shotwell, Mo., Apr. 18, 1891; *s.* Wm. Pierce and Lizzie E. (Henneke) F.; reared on farm. B.Ped., Mo. State Normal, 1912; B.S., Univ. Mo., 1915; B.S.A., 1917. Phi Delta Kappa; Kappa Delta Phi.

Fitzpatrick, Harry Morton, asst. prof. plant path., Cornell Univ., Ithaca, N. Y.

b. Greenwood, Ind., June 27, 1886; *s.* James E. and Addie R. (Watson) F.; reared in town; *m.* Florence C. Fenner, Sept. 15, 1913; *c.* Hugh F. A.B., Cornell Univ., 1909; Ph.D., 1913. Sigma Xi.

Flanders, George Lovell, counsel N. Y. State Div. Agr., N. Chatham N. Y.

Princ. Madrid (N. Y.) Union Schs., 2 yrs. Asst. comnr., Dept. Agr., 28 yrs.; counsel, 6 yrs. Pres. Nat. Dairy Union, 5 yrs.; pres. Farmers' Nat. Congress, 2 yrs.; pres. Nat. Assoc. Dairy and Food Comnrs., 2 yrs. *b.* Parishville, N. Y., Feb. 29, 1856; *s.* Arthur and Mary (Lovell) F.; reared in village; *m.* Catherine S. Keller, Apr. 25, 1885; *c.* Lillian Lovell, Marian Southwick. LL.B., Albany Law Sch. Delta Upsilon.

Flanery, Charles Clarence, co. agrl. agt., Winchester, Tenn.

b. Major, Ky., Apr. 10, 1888; *s.* Thos. Jefferson and Lucy (Searey) F.; reared on farm. B.S.A., Univ. Tenn., 1915. Sigma Chi.

Flansburgh, Earl Alvah, co. agrl. agt., Mt. Morris, N. Y.

Teach. rural sch., 1 yr.; Castile high-sch., 2 yrs.; co. agt., Rochester, N. Y., 1917–8. *b.* N. Easton, N. Y., Sept. 6, 1891; *s.* Aaron and Elizabeth (Thompson) F.; reared on farm. B.S., Cornell Univ., 1915. Kappa Delta Rho.

Fletcher, Stevenson W., prof. hort., Penn. State Coll., State College, Pa.

Prof. hort., Wash. State Coll., 1900–2; prof. hort., W. Va. Univ., 1902–3; asst. prof. ext. teach. in agr., Cornell Univ., 1903–5; prof. hort., Mich. Agr. Coll., 1905–8; dir. Va. Exp. Sta., 1908–15; present position, 1916—. Orchardist, Va., 1908—. Pres. Va. State Hort. Soc. *Auth.:* How to Make a Fruit Garden, 1906; Soils, 1907; Strawberry-Growing, 1917; The Strawberry in North America, 1917. *b.* Littleton, Mass., Sept. 10, 1875; *s.* Chas. K. and Anna (Holton) F.; reared on farm; *m.* Edith Augusta Wallace, June 1901 (d. 1902); 2d, Margaret Rolston, June, 1906; *c.* Robt., Richard, Stevenson, Peter, John, Margaret. B.S., Mass. Agr. Coll., 1896; M.S.A., Cornell Univ., 1898; Ph.D., 1900. Alpha Zeta; Phi Kappa Phi.

Fletcher, William Franklin, sci. asst. in chg. southern dry-land hort. invests., U. S. Dept. Agr., Woodward, Okla.

b. Bainbridge, N. Y., Aug. 16, 1879; *s.* John and Lydia Adeline (Holcomb) F.; reared on farm; *m.* Jane Walker, June 26, 1912; *c.* John Milton, Mary Adeline.

B.S.A., Cornell Univ., 1904; M.S.A., 1906.

Fling, Tracy O., co. agrl. agt., Berkeley Springs, W. Va.

Ginseng raiser, W. Va., 12 yrs.; asst. agt., Jackson Co., 1917. *b.* Burnt House, W. Va., June 16, 1891; *s.* P. J. and Lillie Belle F.; reared on farm; *m.* Mary Marguerite Bosworth, May 26, 1914; *c.* Tracy O. Jr. B.S.A , W. Va. Univ., 1917.

Floyd, Bayard Franklin, plant physiologist, Fla. Exp. Sta., Gainesville, Fla.

Asst. anat., Ind. Univ., 1903–5; asst. bot., Univ. Mo., 1905–7; present position, 1907—. Sec. Fla. State Hort. Soc., 1917—. *b.* Kempton, Ind., Mar. 18, 1882; *s.* Henry J. and Jennie (Melson) F.; reared on farm and in city; *m.* Dixie R. Westlake, June 30, 1910. A.B., Ind. Univ., 1905; A.M., Univ. Mo., 1907. Phi Kappa Phi.

Floyd, Wilbur Leonidas, prof. bot. and hort., Univ. Fla., Gainesville, Fla.

Princ. Clio Sch., Clio, S. C., 1888–9; Cypress Sch., Cypress, S. C., 1889–92; instr. English, E. Fla. Sem., 1892–6; prof. nat. sci., 1896–1905; prof. English and sci., Normal Dept., Univ. Fla., 1905–6; asst. prof. biol. and physics, Univ. Fla., 1906–8; prof. bot. and hort., 1908—; asst. dean Coll. Agr., 1915—. Hort. invest. in Calif., 1913. *b.* Nichols, S. C., Apr. 6, 1866; *s.* Avery and Penelope O. (Williams) F.; reared on farm; *m.* Belva H. Thomas, Dec. 20, 1893; *c.* Mary, Belva. B.S., S. C. Military Acad., 1886; M.S., Univ. Fla., 1906.

Fluharty, Lee Wiley, dir. agrl. ext., Univ. Ida., Moscow, Ida.

Asst. agrst., Off. Farm Manag., U. S. Dept. Agr., 1911–2; asst. distr. leader co. agrl. agts., Ore., Wash., Ida., 1913–4; agrst., Off. Farm Manag., 1914–6; present position, 1917—. *b.* Bedford, Ia., Sept. 21, 1884; *s.* Henry M. and Martha A. (Parks) F.; reared on farm; *m.* Florence Shinn, 1912; *c.* Ardith Louise. B.S.A., Univ. Ida., 1910. Beta Theta Pi.

Foard, Alvin Irl, asst. co. agt. leader, Univ. Mo., Columbia, Mo.

Agt. St. Francois Co., Mo., 1917–8; present position, 1918—. *b.* Ripley Co., Mo., Oct. 24, 1887; *s.* Wm. A. and Nancy S. (Greer) F.; reared on farm. B.S.A., Univ. Mo., 1915. Gamma Sigma Delta.

Foard, William Euphrates, farm manag. dem., U. S. Dept. Agr. and Univ. Mo., Columbia, Mo.

Asst. instr., Univ. Mo., 1913–4; instr., 1914–5; farm manag. dem., U. S. Dept. Agr. and Colo. Agr., Coll., 1915–8; Univ. Mo., 1918—. Mem. exec. com., State Boys' Working Reserve; chm. labor com., State Council Defense. *b.* Doniphan, Mo., Jul. 18, 1883; *s.* Wm. A. and Nancy (Greer) F.; reared on farm; *m.* Winona Daisy Houser, June 11, 1914; *c.* Evelyn Marie, Ruth Elizabeth. B.S.A., Univ. Mo., 1913; A.M., 1914. Gamma Sigma Delta.

Foght, Harold Waldstein, specialist in rural sch. practice and chief of Rural Sch. Div., Bur. Educ., Washington, D. C.

Teach. rural and village schs., Neb., 1890–2; prof. hist. and econ., Elk Horn Coll., 1894–1900; prof. hist. and educ., Dana Coll., 1900–4; Midland Coll., 1904–9; prof. rural educ., Kirksville State Normal Sch., Mo., 1909–13; specialist rural educ., Bur. Educ., 1913–5; present title, 1915—. Studied education systems of Scandinavia, Holland, Belgium and Canada. *Auth.:* The Discovery of America, 1902; Syllabus of American History, 1907; The Trail of the Loup, 1905; The American Rural School 1908; The Country Community, 1912; Rural Denmark and its Schools, 1915. *b.* Frelrikshall, Norway, Dec. 7, 1871 (immigrated 1883); *s.* E. J. and Laura (Arneberg) F.; reared on farm and in town; *m.* Alice Mabel Robbins, Dec. 28, 1897; *c.* Thelma, Margaret, Paul, Harold W. Jr. A.B., Ia. State Coll., 1897; A.M., Augustana Coll., Rock Island, Ill., 1900; grad. student Royal Frederick Univ., Copenhagen, 1900–1; Ph.D., American Univ., 1918.

Fogler, Raymond Henry, asst. to dir. agrl. ext. serv., Univ. Me., Orono, Me.

Asst. biol., Princeton Univ., 1915–7; present position, 1917—. *b.* S. Hope, Me., Feb. 29, 1892; *s.* Henry H. and Mary (Andrews) F.; reared on farm. B.S., Univ. Me., 1915; M.S., Princeton Univ., 1917. Sigma Chi; Alpha Zeta; Phi Kappa Phi.

Folker, Ambrose D., co. agrl. agt., Court House, Topeka, Kans.

b. Mt. Sterling, Ia., Jan. 6, 1887; *s.* Peter C. and Anna (Dickson) F.; reared on farm; *m.* Candace Caton, Aug. 28, 1917. B.S.A., Ia. State Coll., 1911. Sigma Alpha Epsilon; Alpha Zeta.

Folsom, Donald, asst. plant path., Me. Exp. Sta., Orono, Me.

Instr. bot. and plant path., N. C. A. & M. Coll., 1917–8; present position, 1918—. *b.* Henderson, Ia., Oct. 23, 1891; *s.* Artemus and Mary Ann (Van Riper) F.; reared in town; *m.* Alma O. Schulz, Aug. 20, 1914. B.A., Univ. Neb., 1912; M.A., Univ. Minn., 1914; Ph.D., 1917.

[Folsom, J. W., p. 311.

Foord, James A., head Div. Agr. and prof. farm administration, Mass. Agr. Coll., Amherst, Mass.

Asst. an. husb. and dairying, Cornell Univ., 1900–3; prof. agr., Del. Coll., 1903–6; assoc. prof. agron., Ohio State Univ., 1906–7; assoc. prof. agron., Mass. Agr. Coll., 1907–8; present position, 1908—. *b.* Portsmouth, England, Oct. 30, 1872 (naturalized 1893); *s.* James and Elizabeth Naomi (Knight) F.; reared on farm; *m.* Grace M. Law, Nov. 14, 1904; *c.* Elizabeth. B.S., N. H. A.&M. Coll., 1898; M.S.A., Cornell Univ., 1902. Sigma Xi; Phi Kappa Phi; Kappa Sigma.

Foote, Frank M., co. agrl. agt., Beckley, W. Va.

b. Racine, Wis., Mar. 21, 1889; *s.* Frank F. and Elizabeth (McDonald) F.; reared on farm. B.A., Lawrence Coll., 1911. Tau Kappa Alpha.

Forbes, Ernest Browning, chief dept. of nutr., Ohio Exp. Sta., Wooster, O.

Zool. asst., Ill. Biol. Sta., 1894–6; asst. to state ent. of Minn., 1897–8; acting state ent., Minn., 1901; asst. an. husb., Ill. Exp. Sta., 1901–2; instr. an. husb., Univ. Ill., 1902–3; asst. prof. an. husb., Univ. Mo., 1903–7; present position, 1907—. Fellow A. A. A. S. Pres. Am. Soc. An. Production, 1914–5. Major Sanitary Corps, Nat. Army, 1918—. *Auth.:* (with M. H. Keith) A Review of the Literature of Phosphorus Compounds in Animal Metabolism. *Assoc. ed.,* Journal Dental Research, 1918—. *b.* Normal, Ill., Nov. 3, 1876; *s.* Stephen A. and Clara Shaw (Gaston) F.; reared in town and country; *m.* Lydia M. Mather, Aug. 18, 1903; *c.* Lydia Frances, Winifred Mather, Stephen Alfred, Rosemary, Richard Mather. B.S. (Sci.), Univ. Ill., 1897; B.S.A. (Agr.), 1902; Ph.D., Univ. Mo., 1908. Sigma Xi; Delta Tau Delta.

Forbes, Robert Humphrey, supt. and agron., Société Sultanienne d'Agriculture, Cairo, Egypt.

Prof. chem., Univ. Ariz., 1894–9; chem. Exp. Sta., 1894–1910; dir. Exp. Sta., 1899—; dir. agrl. educ., 1912–5; dean Coll. Agr., 1915–8; emeritus, 1918—. Sec. Ariz. Comn. Agr. and Hort., 1907–8. *b.* Cobden, Ill., May 15, 1867; *s.* Henry C. and Mary Jane (Gorham) F.; reared on farm; *m.* Georgie Hazel Scott, 1902. B.S., Univ. Ill., 1892; M.S., 1897; Ph.D., Univ. Calif., 1916.

Forbes, Stephen Alfred, prof. ent., Univ. Ill., Urbana, Ill.

Prof. zool., Ill. State Normal Univ., 1875–8; prof. zool., Univ. Ill., 1884–1909; prof. ent., 1909—; dean Coll. Sci., 1888–1905; Ill. state ent., 1882–1917; dir. Ill. State Lab. of Nat. Hist., 1884–1917; chief, Ill. State Nat. Hist. Survey, 1917—. Del. to Inter. Congress of Ent., Oxford, England, 1912. Awarded 1st class medal for sci. papers by Société d'Acclimatation de France. Mem. Société Entomologique de France. Served in Civil War. *b.* Stephenson Co., Ill., May 29, 1844; *s.* Isaac Sawyer and Agnes (Van Hoesen) F.; reared on farm; *m.* Clara Shaw Gaston, 1873; *c.* Bertha, Ernest B., Winifred, Ethel. Ph.D., Ind. Univ., 1884; LL.D., Univ. Ill., 1905. Phi Beta Kappa; Sigma Xi; Alpha Zeta; Phi Gamma Delta.

Ford, Jacob Homer, state agron. and dem. agt., Prairie View, Tex.

b. Wharton, Tex., Sept. 1, 1876; *s.* Jake and Henrietta (Washington) F.; reared on farm; *m.* Bertha Ophelia Mae, June 26, 1906; *c.* Chas. W. J. Grad. Prairie View Coll., 1903.

Foster, George H., co. agrl. agt., Amelia, Va.

Farmer, 1913—; co. agt., 1917—. *b.* Chicago, Ill., June 28, 1890; *s.* Geo. A. and Mary H. (Scovil) F.; reared in town; *m.* Leila Virginia Merrell, Oct. 19, 1914. B.S.A., Univ. Wis., 1912. Beta Theta Pi.

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Foster, John H., state for. and prof. for., Tex. A.&M. Coll., College Station, Tex.
Instr. Lawrence Acad., Groton, Mass., 1904–5; prof. for., N. H. A.&M. Coll., 1911–5; present position, 1915. Del. Nat. Conservation Congress, Washington, 1913. Lieut. Vt. Nat. Guard, 1902–3. *b.* Waltham, Mass., Apr. 13, 1880; *s.* John and Nellie (Webster) F.; reared in small city; *m.* Mary E. Elliott, Jul. 7, 1915; *c.* Ruth Foster. B.S., Norwich Univ., 1903; M.F., Yale Univ., 1907. Theta Chi; Alpha Zeta.

Foster, John Raymond, co. agrl. agt., Sibley, Ia.
Teach. agr., high-sch., LeSueur, Minn., 1913–6. *b.* Sac City, Ia., Sept. 7, 1884; *s.* Thos. M. and Harriet Ann (Groves) F.; reared on farm; *m.* Luida Marie Schonhood, Oct. 4, 1916; *c.* Janet Elizabeth. B.S., Univ. Ill., 1913.

Foster, Thomas Butterworth, co. agrl. agt., Hillsboro, O.
General farming, 1906–17. *b.* Adams Co., O., Sept. 1, 1884; *s.* E. H. and Della (Ellis) F.; reared in village; *m.* Louise G. Stevenson, Jan. 7, 1912; *c.* Nancy Irvin, Thos. B., Gordon. B.S.A., Ohio State Univ., 1906. Sigma Chi; Alpha Zeta.

Foust, Harry Lewis, asst. prof. vet. sci., N. D. Agr. Coll., Agricultural College, N. D.
Present position, 1916—. *b.* Beaverdam, O., Mar. 22, 1886; *s.* Wm. Edgar and Lydia (Augsburger) F.; reared on farm. D.V.M., Ohio State Univ., 1914. Omega Tau Sigma.

Fox, Cyrus T., journalist, Reading Pa.
City ed., Reading Times, 1872–87; ed. and business manag., Reading Daily Review, 1897–9; manag. Reading News Bur., 1887–1904. State pom., Pa., 1877–1904; insp. Div. Zool., Penn. Dept. Agr., 9 yrs.; lect. and manag. farmers' insts., in first season, 1888–9. Trustee Penn. State Coll., 1890–1903. Sec. Berks Co. Agr. and Hort. Soc., 27 yrs.; sec. Penn. State Hort. Assoc., 1897 and 1898; pres. Penn. State Editorial Assoc., 1902. Manag. Chesterwood Exp. Farm and Gardens, Lancaster Co., Pa., 1865–72; supt. hort. for Pa., at the St. Louis Expos., 1904; World's Fair Assoc. of Supts. of Hort. *b.* Reading, Pa., Mar. 12, 1847; *s.* Frederick and Sarah (Soder) F.; reared in city and on farm; *m.* Tillie S. Shartle, Jan. 7, 1875; *c.* Frederick S., Cyrus Garfield, Paul E.

Fox, Daniel Scott, asst. prof. agron., Penn. State Coll., State College, Pa.
Instr., Cornell Univ., 1913–6; asst. prof. farm manag., Mont. State Coll., 1916–7; present position, 1917—. *b.* Avoca, N. Y., Aug. 31, 1888; *s.* Emerson E. and Jennie (Scott) F.; reared on farm; *m.* Grace Fordyce, June 30, 1915; *c.* Dorothy Elizabeth. B.S., Cornell Univ., 1913; Ph.D., 1918.

Fox, Lawrence M., co. agrl. agt., Kingwood, W. Va.
Dairy farmer, 1907–17. *b.* Welshfield, O., Sept. 2, 1882; *s.* John W. and Minnie L. (Pratt) F.; reared on farm; *m.* Verna Messenger, June 12, 1907; *c.* J. Ross, Ruth E. B.S.A., Ohio State Univ., 1907.

Frame, Nat Terry, state agt. in chg. co. agts., Univ. W. Va., Morgantown, W. Va.
Asst. supt., Geo. Junior Republic, 1900–2; farmer, 1902–13. Sec. Eastern Fruit-Growers' Assoc.; Berkeley Co. Hort. Soc. *b.* Depauville, N. Y., Feb. 25, 1877; *s.* Silas W. and Antonette (Terry) F.; reared on farm and in village; *m.* Grace Boomer, 1900; *c.* Luke W., Robt. N., Wm. S. A.B. Colgate Univ. ,1899. Phi Kappa Psi.

Frandsen, Julius Herman, prof. dairy husb., Univ. Neb., Lincoln, Neb.
Instr. agrl. chem., Ia. State Coll., 1902–4; commercial work, 1904–7; prof. dairying, Univ. Ida., 1907–11; present position, 1911—. Del. Am. Assoc. Agr. Colls., 1909; Northwest Rural Life Comn., from Ida. Pres, Official Dairy Instrs. Assoc., 1913–4; pres. Neb. State Dairymen's Assoc., 1916. Chm. dairy com., Fed. Food Administration for Neb., 1917—. *Auth.:* (with Markham) The Manufacture of Ice Creams and Ices, 1916. *Ed.,* in-chief, Journal of Dairy Science. *b.* Story City, Ia., Apr. 28, 1877; *s.* Andrew Christian and Anna (Hermansen) F.; reared on farm; *m.* Matilda Madson, Aug. 9, 1906; *c.* Julius Herman Jr., Dorothy Evelyn. B.S.A., Ia. State Coll., 1902; M.S.A., 1904. Phi Kappa Phi; Gamma Sigma Delta.

Frank, William Luther, sci. asst. in grain standardization invests., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

b. Wapakoneta, O., Dec. 22, 1892; *s.* David L. and Anna M. (Ramga) F.; reared on farm; *m.* Edith Alida Ray, Aug. 19, 1917; *c.* Edith Marie. B.S.A., Ohio State Univ., 1917. Beta Alpha Chi.

Franklin, Henry James, supt. cranberry substa., E. Wareham, Mass.

Instr. ent., Univ. Minn., 1908–9; present position, 1909—. *b.* Guilford, Vt., Feb. 10, 1883; *s.* James Henry and Emma Mary (Franklin) F.; reared on farm. B.S., Mass. Agr. Coll., 1903; Ph.D., 1908.

Fraps, George Stronach, state chem. of Tex., College Station, Tex.

Asst. prof. chem., N. C. A.&M. Coll., 1899–1903; asst. chem., N. C. Exp. Sta., 1899–1903; asst. chem., Tex. Exp. Sta., 1903–4; assoc. chem., 1904–5; chem., 1905—; assoc. prof. chem., Tex. A. & M. Coll., 1906–13; state chem. of Tex., 1905—; chem. Feed Control, 1905—. Fellow A. A. A. S. *Auth.:* Principles of Dyeing, 1903; Principles of Agricultural Chemistry, 1913, rev., 1917. *b.* Raleigh, N. C., Sept. 9, 1876; *s.* Anton Wenze and Margaret Elizabeth Lumley (Stonebanks) F.; reared in city; *m.* Ellen Hale Saunders, June 17, 1903; *c.* Geo. S. Jr., Mary Brandon, Richard Saunders. B.S., N. C. A.&M. Coll., 1896; Ph.D., Johns Hopkins Univ., 1899. Phi Beta Kappa.

Fraser, Samuel, fruit-grower, nurseryman, farmer, Geneseo, N. Y.

Asst. agr., Cheshire Agr. Coll., England, 1896–8; agrst., Sch. Practical Agr. and Hort., Briarcliff Manor, N. Y., 1900–3; asst. agron. and instr., Cornell Univ., 1903–6. Fellow A. A. A. S.; Highland and Agrl. Soc., Scotland. Chm. exec. com. and ex. vice-pres. N. Y. State Hort. Soc.; ex vice-pres. N. Y. State Agrl. Soc. *Auth.:* The Potato, 1905. *b.* Cheadle, Cheshire, England, Feb. 2, 1876; *s.* John and Frances Catherine (Widdison) F.; reared in city; *m.* Nicolas M. Shaw, Aug. 26, 1903; *c.* Rachel Shaw. Grad. Cheshire Agr. Coll., England, 1898; diploma Highland and Agrl. Soc., Scotland, 1898; diploma Royal Agrl. Soc., England, 1898; nat. diploma in dairying, Great Britain, 1898; M.S.A., Cornell Univ., 1905. Sigma Xi.

Fraser, Wilber John, prof. dairy farming and chief Exp. Sta., Univ. Ill., Urbana, Ill.

Asst. agrst., Ill. Exp. Sta., 1895–6; instr. dairy husb., 1896–1901; present position, 1901—. Studied dairy farming in Europe. Farm operator. *b.* Lockport, Ill., Jul. 1, 1869; *s.* John A. and Mary A. (Van Horn) F.; reared on farm; *m.* Alice M. Eaton, Sept. 13, 1894; *c.* Cecil E., Gladys C. B.S., Univ. Ill., 1893; M.S., 1902. Sigma Xi.

Frear, Dana Walter, asst. state co. agt. leader, N. D. Agr. Coll., Fargo, N. D.

Field agt., Bur. Plant Ind., 1908, Bur. Statistics, U. S. Dept. Agr., 1909; instr., asst. prof., assoc. prof. agron., Colo. Agr. Coll., 1909–13; state leader co. agrl. agts., 1912–5; present position, 1915—. Sec.-treas. Nat. Agr. State Leaders' Assoc., 1913–5. *Ed.,* Minnesota Farm Review, St. Paul, 1908–9. *b.* Minnetonka, Minn., Mar. 10, 1884; *s.* Walter Scott and Clara E. (Chase) F.; reared on farm and in town. B.S.A., Univ. Minn., 1909; M.S., 1915. Sigma Xi; Alpha Zeta.

Frear, William, prof. expl. agrl. chem., Penn. State Coll., State College, Pa.

Asst. nat. sci., Bucknell Univ., 1881–3; asst. chem., U. S. Dept. Agr., 1883–5; asst. prof. agrl. chem., Penn. State Coll., 1885; prof., 1886–1906; prof. expl. agrl. chem., 1907—; vice-dir. and chem., Exp. Sta., 1887—; chem., Pa. State Bd. Agr., 1889—; chem., Pa. Dept. Agr., 1895—; chem., Pa. Dairy and Food Bur., 1895—. Mem. U. S. Food Standards Comn., 1903–7; Joint Com. on Food Definitions and Standards, 1914—. Vice-pres. Assoc. Am. Agrl. Colls. and Exp. Stas.; pres. Assoc. Official Agrl. Chems.; pres. and sec. Soc. for Promotion Agrl. Sci.; pres. sci. sect., Assoc. Am. Dairy Food and Drug Officials; chm. exec. com., Nat. Pure Food and Drug Congress. Fellow A. A. A. S. *Ed.,* Agricultural Science, 1892–4. *b.* Reading, Pa., Mar. 24, 1860; *s.* Geo. and Malvina (Rowland) F.; reared in city and on farm; *m.* Julia Reno, Jul. 17, 1900; *c.* Geo. Lewis, Mary Reno, Elizabeth Rowland, Wm. B.A., Bucknell Univ., 1881; Ph.D., Ill. Wesleyan Univ., 1883. Phi Kappa Psi; Phi Kappa Phi; Alpha Zeta (hon.); Alpha Chi Sigma (hon.).

Fred, Edwin Broun, assoc. prof. agrl. bact., Univ. Wis., Madison, Wis.

b. Middlebury, Va., Mar. 22, 1887; *s.* Samuel Rogers and Catherine (Conway) F.; reared on farm; *m.* Rosa Helen Parrott; *c.* Ann Conway. B.S., Va. Poly. Inst., 1907; Ph.D., Univ. Goettingen, 1911.

Freeman, Edward Monroe, prof. plant path. and bot. and dean Coll. Agr., Univ. Minn., St. Paul, Minn.

Instr. bot., Coll. Pharmacy, Univ. Minn., 1898–1901; asst. prof. bot., Coll. Sci. and Arts, 1902–3; path., Bur. Plant Ind., Washington, 1905–7; prof. plant path. and bot., Coll. Agr., Univ. Minn., 1907—; asst. dean, Dept. Agr., 1913–7; dean, 1917—. Fellow A. A. A. S. Pres. Am. Phytopathological Soc., 1918. *Auth.:* Minnesota Plant Disease, 1905. Mem. editorial com., Journal of Agricultural Research. *b.* St. Paul, Minn., Feb. 12, 1875; *s.* Henry and Sybilla (Jenni) F.; reared in country and city; *m.* Grace D. Studeman, Aug. 19, 1902; *c.* Monroe Edward. B.S., Univ. Minn., 1898; M.S., 1899; Ph.D., 1905; student Cambridge Univ., England, 1 yr. Phi Beta Kappa; Sigma Xi; Gamma Alpha.

Freeman, Frances Rowland, prof. home econ., Univ. Me., Orono, Me.

Head home econ. dept., State Normal Sch., Moorhead, Minn., 1911–4; present position, 1914—. *b.* Tippecanoe City, O., Mar. 7, 1887; *d.* C. M. and Fannie (Stafford) F.; reared on farm. B.S., Ohio State Univ., 1910; M.S., 1911. Sigma Xi; Phi Kappa Phi.

Freeman, George F., plant geneticist and bot., Société Sultanienne d'Agriculture, Cairo, Egypt.

Asst. bot., Mass. Agr. Coll., 1903–4; asst. and asst. prof. bot., Kans. State Agr. Coll., 1904–9; plant-breeder, Univ. Ariz., 1909–18; acting dean and dir. Coll. Agr., Ariz., 1915–6. *b.* Leesburg, Ala., Nov. 4, 1876; *s.* Geo. Washington and Laura Caroline (Nuckols) F.; reared on farm; *m.* Loua Adelle Blachly, Jul. 18, 1906; *c.* Eleanor Adelle, Geo. Donald. B.S., Ala. Poly. Inst., 1903; Sc.D., Harvard Univ., 1917.

Freeman, Robert Wallace, distr. agrl. agt., Wilson, N. C.

Supt. and prof. sci., Samuel Benedict Mem. Sch., Cedartown, Ga., 1911–2; asst. supt., Clemson Coll. Branch Exp. Sta., Summerville, S. C., 1913—; co. agt., Salisbury, N. C., 1913–4; present position, 1914—. *b.* Lydia, S. C., June 4, 1889; *s.* J. W. and Emma (Hendricks) F.; reared on farm; *m.* Mary Etta Mathews, Apr. 7, 1914; *c.* Robt. W. Jr. B.S., Clemson Agr. Coll., 1911.

Frejd, David John, agrl. rep., Kenora, Ont.

b. Bruce Mines, Ont., Mar. 31, 1891; *s.* John and Matilda (Johnson) F.; reared on farm. B.S.A., Ont. Agr. Coll., 1915.

French, Hiram T., dir. ext., Colo. Agr. Coll., Fort Collins, Colo.

Prof. agr., Ore. Agr. Coll., 1889–99; prof. agr., Univ. Ida., 1899–1903; dir. Exp. Sta., 1903–9; state leader coop. farm dem. work, Ore. Agr. Coll., 1909–15; present position, 1915—. Mem. Ida. Country Life Comn.; pres. Ida. State Dairy and Pure Food Assoc., 9 yrs. Planned and built community school, Washoe, Ida. Farm operator; pres. Pleasant Valley Farm Lands Co., Caldwell, Ida. *Auth.:* History Idaho, 1913–4. *Assoc. ed.,* Gem State Rural and Live Stock Journal, 3 yrs. *b.* Almena, Mich., Oct. 1, 1861; *s.* Warren F. and Sarah (Eager) F.; reared on farm; *m.* Carrie C. French, 1886 (d. 1900); 2d, Lura C. Cass, 1901; *c.* Ralph W., Carrie, Helen, Hiram Jr. B.S., Mich. Agr. Coll., 1885; M.S., 1888.

French, Walter Hiram, prof. agrl. educ., Mich. Agr. Coll., E. Lansing, Mich.

Co. supt. schs., 1893–1901; deputy state supt. public instr., 1901–8. Mem. State Com. on Agrl. and Ind. Educ.; sec. Am. Assoc. for Adv. Agrl. Teach.; vice-pres. Nat. Soc. Promotion Ind. Educ. *b.* Cuba, N. Y., Jan. 28, 1862; *s.* Harvey H. and Perlie A. (Niles) F.; reared on farm; *m.* Caddie M. Chaffee, 1886; *c.* Horace L. M.Pd., State Normal Coll., Mich., 1910; M.S., Univ. Mich., 1913. Alpha Zeta.

Fries, Jons August, asst. dir., Inst. of An. Nutr., Penn. State Coll., State College, Pa.

Asst. chem., Penn. Exp. Sta., 1889–98; expert asst. in an. nutr., 1898–1908; present title, 1908—. *b.* Halsinborg, Sweden, Aug. 31, 1863 (naturalized 1892); *s.* Rasmus and Anna Sophia (Fries) Larson; reared in small town. B.S., Penn. State Coll., 1899; M.S., 1906; studied

Halle, Germany, 1894; Bonn and Leipzig, 1904 and Zurich, Switzerland, 1905.

Fromme, Fred Denton, prof. mycology and plant path. and path. Exp. Sta., Va. Poly. Inst., Blacksburg, Va.

Asst. bot., Columbia Univ., 1911–3; asst. bot., Purdue Exp. Sta., 1913–5; present position, 1915—. *b.* St. Paris, O., Apr. 2, 1886; *s.* Frank W. and Stella (Riker) F.; reared in city; *m.* Bess Fridley, June, 1913; *c.* Jean Louise, Anne. B.S., S. D. State Coll., 1911; Ph.D., Columbia Univ., 1914. Sigma Xi.

Frost, Norman, prof. rural educ., Geo. Peabody Coll. for Teachers, Nashville, Tenn.

Princ. public sch., Fountain, Minn., 1909–10; supt. schs., Stephen, Minn., 1910–2; specialist, U. S. Bur. Educ., 1913; distr. supt. schs., Waterbury, Vt., 1913–6; present position, 1917—. *b.* Oberlin, O., June 23, 1887; *s.* Wm. G. and Louise (Raney) F.; reared in small town. B.A., Oberlin Coll., 1909; M.A., Columbia Univ., 1914. Phi Delta Kappa.

Frost, William Dodge, prof. agrl. bact., Univ. Wis., Madison, Wis.

Asst., Minn., State Bd. of Health Lab., 1894–5; asst. bact., Univ. Wis., 1895–8; instr., 1898–1902; asst. prof., 1902–7; assoc. prof., 1907–14; prof. agrl. bact., 1915—. Fellow A.A.A.S. *Auth.:* Laboratory Guide in Elementary Bacteriology, 1901; (with McCampbell) General Bacteriology, 1912; chapter in Marshall's Microbiology. *b.* Lake City, Minn., Sept 13, 1867; *s.* Benj. Cutler and Lucy Jane (Dodge) F.; reared on farm; *m.* Jessie Elwell, Jan. 1, 1895; *c.* Russell Elwell, Theodore Dodge. B.S., Univ. Minn., 1893; M.S., 1894; Ph.D., Univ. Wis. 1903; Dr. P. H., Harvard Med. School, 1913. Sigma Xi.

Fry, Jacob Martin, co. agrl. agt., Sunbury, Pa.

Asst. agrl. ext., Penn. State Coll., 1917–8. *b.* Ephrata, Pa., Feb. 20, 1887; *s.* Samuel Curtis and Catherine R. (Kline) F.; reared on farm. B.S., Penn. State Coll., 1917. Phi Kappa Phi.

Fuller, Frank Erwin, ext. agron., Mont. State Coll. Bozeman, Mont.

Sec. Mont. Seed Growers' Assoc. *b.* Atwood, Kans., Dec. 28, 1887; *s.* Frank and Adelia (Hoogner) F.; reared on farm; *m.* Ruth Plumb, 1912; *c.* Kenneth. B.S., Kans. State Agr. Coll., 1911; B.S.A., Ia. State Coll., 1917. Alpha Zeta; Phi Kappa Phi.

Fuller, Frederick Driggs, chief, div. feed control serv., Tex. Exp. Sta., College Station, Tex.

Asst. chem., N. H. Exp. Sta., 1892–5; asst. chem., N. Y. Agr. Exp. Sta., Geneva, 1896–1905; chief chem., Dept. Agr., Harrisburg, Pa., 1905–9; chief, Cattle Feed and Grain Invest. Lab., U. S. Bur. Chem., 1909; chief chem. and general manag., Pa. Primo Feed Co., Harrisburg, 1909–10; chief deputy state chem., Ind. Exp. Sta., 1910–6; chg. sci. educ. dept., Am. Feed Manufacturers' Assoc., 1916–7; present position, 1917—. Fellow A. A. A. S. *b.* Hanover, N. H., May 14, 1873; *s.* John Marsh and Martha Sophia (Driggs) F.; reared on farm; *m.* Abby Florence Chamberlin, 1895; *c.* Irene Mabel, Allan Chamberlin, Whitman Hamilton, Raymond Nelson. B.S., N. H. A.&M. Coll., 1892; M.S., Purdue Univ., 1912. Sigma Xi; Kappa Sigma.

Fuller, Horace B., agrst. co. agt. work, States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Farmer, Montmorency Co., Mich., 8 yrs. *b.* Ingham Co., Mich., June 2, 1870; *s.* Geo. F. and Helen (Bigelow) F.; reared on farm; *m.* Axie E. Warren, Nov. 20, 1898; *c.* Helen P., Grace L., Theodore W., Mariam, Elva A. B.S., Mich. Agr. Coll., 1892.

Fuller, James Garfield, assoc. prof. an. husb., Univ. Wis., Madison, Wis.

Asst. an. husb., Univ. Wis., 1904–6; instr., 1906–8; asst. prof., 1908–13; assoc. prof., 1913—. Studied agr. in Europe, 1910. *b.* Waterman, Ill., Sept. 12, 1880; *s.* Harvey L. and Sarah (Brady) F.; reared on farm; *m.* Lulu Margaret Douglas, Apr. 21, 1908; *c.* Harold Douglas, James Gordon. B.S.A., Univ. Wis., 1904. Alpha Zeta.

Fuller, John McElroy, prof. dairy husb., N. H. A. & M. Coll., Durham, N. H.

Instr. dairy husb., S. D. State Coll., 1912–3; assoc. prof., 1913–5; prof. dairying, Okla. A. & M. Coll., 1915–6; present position, 1916—. *Assoc. ed.,* Orange Judd Weeklies, 1911–2. *b.* Brooks,

Ia., Dec. 23, 1882; *s.* Chester Morrison and Eunice Virginia (Teeter) F.; reared on farm; *m.* Elsie K. Bissell, Aug. 27, 1913; *c.* John Frederick. B.S., Ia. State Coll., 1911. Delta Sigma Rho; Gamma Sigma Delta.

Fulton, Harry Roscoe, path. fruit disease invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Plant path., La. Exp. Sta., 1906–8; assoc. prof. bot. and plant path., Penn. State Coll., 1908–12; prof. bot. and plant path., N. C. A.&M. Coll., 1912–6; present position, 1916—. Fellow A. A. A.S. *Auth.:* Essentials of Botany, 1915. *b.* Oxford, Miss., Sept. 19, 1880; *s.* Robt. Burwell and Annie Rose (Garland) F.; reared on farm; *m.* Nell Cribbs, 1913; *c.* Carrie Roper. B.A., Univ. Miss., 1900; M.A., Univ. Mo., 1905; M.A., Harvard Univ., 1906. Sigma Xi; Phi Kappa Phi; Delta Psi.

Funchess, Marion Jacob, prof. agron., Ala. Poly. Inst., Auburn, Ala.

Asst. prof. agron., Ala. Poly. Inst., 1909–12; assoc. prof., 1912–5; prof., 1915—. *b.* Orangeburg, S. C., Apr. 9, 1884; *s.* J. S. and E. M. (Andrews) F.; reared on farm; *m.* Agnes Eloise McCants, June 21, 1911; *c.* Jean Eloise, Helen. B.S., Clemson Agr. Coll., 1908; M.S., Univ. Wis., 1911. Phi Kappa Phi; Gamma Sigma Delta; Kappa Phi Gamma.

G

Gaddis, Porter L., assoc. prof. agron., Univ. Neb., Lincoln, Neb.

Asst. prof. agron. ext., Univ. Neb., 1915–7; assoc. prof., 1917—. *b.* Custer Co., Neb., June 13, 1885; *s.* Wm. C. and Nancy R. (Higgins) G.; reared on farm; *m.* Merle Wilson, Aug., 1909; *c.* Marion, Mildred. A.B., Greenville Coll., Ill., 1908; B.S.A., Univ. Neb., 1916.

Gage, George Edward, assoc. prof. an. path., Mass. Agr. Coll., Amherst, Mass.

Assoc. biol., Md. Exp. Sta., 1909–10; biol., 1910–1; asst. prof. an. path., Mass. Agr. Coll., 1911–2; assoc. prof., 1912—; research path., Exp. Sta., 1915—. 1st Lieut., Sanitary Corps, Nat. Army, 1918—. *b.* Springfield, Mass., Dec. 30, 1883; *s.* Wm. H. and Mary Elizabeth (Lashorn) G.; reared in city. B.A., Clark Univ., 1906; M.A., Yale Univ., 1907; Ph.D., 1909. Phi Kappa Phi; Kappa Phi.

Gainey, Percy Leigh, asst. prof. bact., Kans. State Agr. Coll., Manhattan, Kans.

Asst., N. C. A.&M. Coll., 1908–10; instr., Univ. Mo., 1911–4; soil bact., Kans. Exp. Sta., 1914—; asst. prof., Kans. State Agr. Coll., 1917—. *b.* Fayetteville, N. C., Mar. 9, 1887; *s.* Abram and Amelia (MacNabb) G.; reared on farm; *m.* Grace Trueman Deaton, Dec. 25, 1913. B.Agr., N. C. A.&M. Coll., 1908; M.S., 1910; A.M., Washington Univ., 1911. Sigma Xi; Alpha Zeta; Gamma Alpha.

Galloway, Beverly Thomas, plant path., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Asst. hort., Univ. Mo., 1884–6; asst. Sect. of Mycology, Div. Bot., U. S. Dept. Agr., 1887–8; chief Div. Path., 1888–1901; chief Bur. Plant Ind., 1901–13; asst. sec. agr., 1913–4; dean Coll. Agr., Cornell Univ., 1914–6; present position, 1916—. Fellow A. A. A. S. Agrl. explorer in Japan, China, India, N. Africa. Farmer, Md., 7 yrs.; florist and gardner, Mo., 4 yrs., Md., 5 yrs. *b.* Millersburg, Mo., Oct. 16, 1863; *s.* Robt. M. and Jane (McGray) G.; reared in country; *m.* Agnes S. Rankin, Sept. 5, 1888; *c.* Robt. Rankin, Gordon, Beverly. B.Agr. Sc., Univ. Mo., 1884; LL.D., 1904.

Galpin, Charles Josiah, assoc. prof. agrl. econ., Univ. Wis., Madison, Wis.

Vice-princ. Union Acad., Belleville, N. Y., 1885–8; prof. hist., Kalamazoo Coll., 1888–91; princ. Union Acad., 1891–1901 (established first course in agr. in secondary schs. of N. Y. State, 1901); first univ. pastor at Univ. Wis., 1905–11; present position, 1911—. Mem. Social Serv. Com., N. Baptist Convention, 1910–7; mem. Comn. of Country Church of Fed. Council of Churches of Christ in Am.; sec. Wis. Country Life Conference, 1911–7. Traveled in England, Scotland, Norway, Denmark. *Auth.:* Rural Life, 1918. *b.* Hamilton, N. Y., Mar. 16, 1864; *s.* L. Q. and Frances (Look) G.; reared in country and village; *m.* Zoe N. Wickwire, June 22, 1887. A.B., Colgate Univ., 1885; A.M., 1888; Harvard Univ., 1895. Phi Beta Kappa; Delta Kappa Epsilon.

Gamble, James Alexander, prof. dairy husb., Md. State Coll. Agr., College Park, Md.

Dairyman, Conn. Exp. Sta. Model Farm, 1909; milk chem. and bact., Springfield, Mass., 1909–14; market milk specialist, Bur. An. Ind., U. S. Dept. Agr., 1914–8; present position, 1918—. Supt. milk and cream exhibits, Nat. Dairy Show, 1916–8; milk judge, Nat. Dairy Show, 1916–8. Chm. dairy farm insp. com., Inter. Assoc. Dairy and Milk Insps., 1917–8. *b.* Waupaca, Wis., Oct. 10, 1882; *s.* James and Margaret (Fleming) G.; reared on farm; *m.* Florence G. Smith, Apr. 20, 1911; *c.* James Ross. B.S., Conn. Agr. Coll., 1909; M.S., George Washington Univ., 1915.

Garber, Norman Eby, co. agrl. agt., Doylestown, Pa.

b. Elizabethtown, Pa., Oct. 25, 1890; *s.* Simon E. and Fannie F. (Eby) G.; reared on farm; *m.* Belle C. Kauffman, June 30, 1918. B.S., Penn. State Coll., 1916. Alpha Zeta.

Garber, Ralph John, asst. prof. agron., Univ. Minn., University Farm, St. Paul, Minn.

Instr. agr., high-sch., Morgan, Minn., 1913–5; Monticello, 1915–6; instr. agron., Univ. Minn., 1917–8; asst. prof., 1918. *b.* Deer Creek, Ill., Apr. 24, 1890; *s.* John and Lena (Oswald) G.; reared on farm; *m.* Mildred Fitschen, Jul. 12, 1917. B.S., Univ. Ill., 1912; M.S., Univ. Minn., 1917. Gamma Sigma Delta.

Garcia, Fabian, dir. N. Mex. Exp. Sta., prof. hort., N. Mex. A. & M. Coll., State College, N. Mex.

Asst. agr., N. Mex. A. & M. Coll., 1894–1906; prof. hort., 1906—; hort., Exp. Sta., 1906–13; dir., 1913—. Pres. Dona Ana Co. Fair, 1912. *b.* Chihuahua, Mex., Jan. 20, 1871 (naturalized 1889); *s.* Ricardo and Refugio (Rivera) G.; *m.* Julieta J. Amador, Aug. 14, 1907. B.S., N. Mex. A. & M. Coll., 1894; M.S.A., 1906; special student, Cornell Univ., 1899–1900.

Gardner, Frank Duane, prof. agron., Penn. State Coll., State College, Pa.

Asst. agr., Univ. Ill., 1891–5; sci. and soil expert, Bur. Soils, U. S. Dept. Agr., 1895–1908; chg. Porto Rico Exp. Sta., 3 yrs.; present position, 1908—. Farm operator. *Auth.:* Successful Farming, 1916. *b.* Gilman, Ill., Nov. 19, 1864; *s.* Isaac J. and Inverno (Bennett) G.; reared on farm; *m.* Ellen P. Crum, June 6, 1894; *c.* Matthias B., F. Easter, Reina E. B.S., Univ. Ill., 1891.

Gardner, Obadiah, farmer and senator, Rockland, Me.

Master State Grange, 1897–1907. Dem. candidate for governor, Me., 1908; U. S. Senator, 1911–3; assessor for Me., 1911. Chm. Am. Sect. of Inter. Joint Comn. having chg. of all diversions and obstructions of the boundary waters marking the boundary between the U. S. and Canada. *b.* Port Huron, Mich., Sept. 13, 1852; *s.* John and Mary (Strevils) G.; *m.* Corinna A. Sherer, Nov. 28, 1875. Grad. Eastman's Business Coll., Poughkeepsie, N. Y., Coburn Classical Inst., Waterville, Me.

Gardner, Victor Ray, prof. pom., Ore. Agr. Coll., Corvallis, Ore.

Teaching fellow, Ia. State Coll., 1905–7; instr. hort., Macdonald Coll., Canada, 1907–8; asst. prof. hort., Univ. Me., 1908–11; acting head Coll. Agr., 1909–11; assoc. prof. pom., Ore. Agr. Coll., 1911–5; prof., 1915—. *b.* Ann Arbor, Mich., Mar. 25, 1885; *s.* Leonard B. and Ann (Parker) G.; reared in country and city; *m.* Bernice Mae Jackson, 1908. B.S., Mich. Agr. Coll., 1905; M.S.A., Ia. State Coll., 1907. Alpha Zeta.

Garfield, Charles William, banker and farmer, Grand Rapids, Mich.

Teach. Mich. Agr. Coll., 1873–7. Mem. Mich. House of Rep., 1881–2; state Bd. Agr., 12 yrs. (trustees Mich. Agr. Coll.); pres. Mich. For. Comn., 9 yrs. Pres. Mich. For. Assoc.; treas. Mich. Civil Service League; sec. Mich. Hort. Soc., 10 yrs.; sec. Am. Pom. Soc., 4 yrs. *b.* Milwaukee, Wis., Mar. 14, 1848; *s.* Samuel Marshall and Harriet Eliza (Brown) G.; *m.* Jessie Robertson Smith, Nov. 24, 1897. B.S., Mich. Agr. Coll., 1870; M.S., 1873; LL.D., 1917. Phi Delta Theta.

Garman, Harrison, prof. ent., Univ. Ky., and state ent., Lexington, Ky.

Assoc. prof. zool., Univ. Ill.; pres. Am. Assoc. Econ. Ents.; mem. exec. com., Am. Assoc. Official Seed Analysts. *b.* Stephenson Co., Ill., Dec. 27, 1858;

s. Benjamin F. and Sarah A. (Griffith) G.; reared in village; *m.* Rosalie Miller, Oct. 30, 1883; *c.* Frederick, Philip. D.Sc., Univ. Ky.

Garner, Wightman Wells, physiologist in chg. tobacco and plant nutr. invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Instr. chem., Tufts Coll., 1900–3. *b.* Timmonsville, S. C., Jul. 15, 1875; *s.* James N. and Joana (Wright) G.; reared on farm; *m.* Judith Goode, Nov. 8, 1905. A.B., Univ. S. C., 1896; Ph.D., Johns Hopkins Univ., 1900. Sigma Alpha Epsilon.

Garrahan, R. H., market-gard., Kingston, Pa.

Dir. Am. Veg. Growers' Assoc. *b.* Avondale, Pa., Oct., 1875; *s.* M. and Margaret (Hutchison) G.; reared on farm; *m.* Mabel Keller, Oct. 2, 1901; *c.* Ralph, Jean.

Garrigus, Harry Lucian, prof. an. husb. and farm supt., Conn. Agr. Coll., Storrs, Conn.

Farm supt. and instr. dairying and vet. sci., Baron DeHirsch Sch. Agr., 1900–1; asst. agrst., Storrs Exp. Sta., 1901–2; farm supt. and instr. an. husb., 1902–15; present position, 1915—. Dir. Conn. Dairymen's Assoc.; sec. Conn. Sheep Breeders' Assoc.; vice-pres. New England Hereford Breeders' Assoc.; sec. Conn. Horse Breeders' Assoc. *b.* Wolcott, Conn., Aug. 18, 1876; *s.* J. H. and Sophronia E. (Upson) G.; reared on farm; *m.* Bertha M. Patterson, Nov. 29, 1899; *c.* Elsie M., Howard S., Russell M., Wesley P., Upson S. B.A., Conn. Agr. Coll., 1898; grad. student Ont. Agr. Coll.

Gaskill, Ralph Hicks, co. agrl. agt., Hathorne, Mass.

Instr. an. husb. and head dept., Bristol Co. Agr. Sch., 1913–5; agt. Bristol Co., 1915–7; with R. H. Phillips, chain grocer and milk dealer, Springfield, Mass., 1917; agt. Essex Co., 1918—. Dir. in Mass. Fruit Growers' Assoc. *b.* Mendon, Mass., June 14, 1892; *s.* Albion A. and Abbie Frances (Hicks) G.; reared on farm; *m.* Nina Marion Taft, Aug. 17, 1915. B.S., Mass. Agr. Coll., 1913. Lambda Chi Alpha.

Gasser, George William, supt. U. S. Agr. Exp. Sta., Rampart, Alaska.

b. Youngstown, O., Dec. 10, 1874; *s.* John and Verena (Gysel) G.; reared on farm; *m.* Beatrice Peck, Aug. 12, 1909. B.S., Kans. State Agr. Coll., 1905.

Gates, Burton Noble, assoc. prof. beekeeping, apiariast Exp. Sta., and state insp. apiaries for Mass. Bd. Agr., Mass. Agr. Coll., Amherst, Mass.

Asst. biol., Clark Coll., 1906–7; field fellow, 1908–9; lect. beekeeping, Mass. Agr. Coll., spring, 1906, 7, 8, 10; collaborator Bur. Ent., U. S. Dept. Agr., Feb.–Jul., 1907, 1917—; expert in apiculture and asst., 1907–10; present position, 1910—. Fellow A. A. A. S. Ex-pres. Nat. Beekeepers' Assoc. *b.* Worcester, Mass., Dec. 19, 1881; *s.* Chas. Burton and Ida E. (Noble) G.; reared in city and country; *m.* June 15, 1918. A.B., Clark Coll., 1905; A.M., Clark Univ., 1906; Ph.D., 1909. Kappa Phi.

Gates, William H., prof. zool. and ent., La. State Univ., Baton Rouge, La.

Zool., Gulf Biol. Sta., La., 1908–9; acting dir., 1909–12; asst. zool. and ent., La. State Univ., 1909–10; prof., 1910—. *b.* Mahableshwar, British India, May 11, 1883; *s.* Lorin Samuel and Fannie (Hazen) G.; reared on farm; *m.* Theodosia Jones, June 1, 1911. B.A., Williams Coll.

Gaunmitz, Amos John, co. agrl. agt., Mandan, N. D.

Asst. in cereal lab., Univ. Calif., 1905–6; chg. cereal field work, Davis, Calif., 1907–12; instr. farm crops and chem., Davis, 1909–12; asst. agron., Calif. Exp. Sta., 1910–2; agt. Wells Co., N. D., 1913–5; agt. Morton Co., 1915—. *b.* Haven Township, Minn., May 31, 1881; *s.* Herman and Anna (Gazette) G.; reared on farm; *m.* Mary E. Flaa, Oct. 18, 1907; *s.* Florence, Gretchen, Herman. B.S., Univ. Minn., 1905; M.S.A., Univ. Calif., 1906. Alpha Zeta.

Gay, Carl Warren, prof. an. husb. and chm. an. ind. group, Univ. Minn., University Farm, St. Paul, Minn.

Prof. vet. div., Ia. State Coll., 1901–4; asst. prof. an. husb., 1904–5; asst. prof. an. husb., Ohio State Univ., 1905–6; assoc. prof., 1906–7; prof. an. ind., Univ. Penn., 1907–16; present position,

1916—. Manag. farm of Pa. Live-Stock Sanitary Bd., Media, 1911–6; dir. horse breeding, Pa. Dept. of Agr., 1907–16. *Auth.:* Productive Horse Husbandry, 1914; Principles and Practice of Judging Live-Stock, 1914; ed. The Breeds of Live-Stock, 1916. *b.* Waverly, N. Y., Mar. 14, 1877; *s.* Chas. Warren and Lucy (Lemon) G.; reared in town; *m.* Catherine E. Andrews, Dec. 17, 1906; *c.* Hayward Andrews, Lucy Satterlee. D.V.M., Cornell Univ., 1899; B.S.A., Ia. State Coll., 1905; fellowship Cornell Univ., 1 yr.

Gayle, Hubbard Kavanaugh, an. husb., Miss. Exp. Sta., Agricultural College, Miss.

Present position, 1915—. *b.* Frankfort, Ky., Dec. 15, 1891; *s.* Clarence and Emma (Kavanaugh) G.; reared in town and on farm; *m.* Jennie Ruth Hall, May 27, 1916; *c.* H. K. Jr. B.S.A., Univ. Ky., 1914. Alpha Zeta.

Gee, Wilson, asst. dir. ext., Clemson Agr. Coll., Clemson College, S. C.

Asst. biol., Univ. S. C., 1908–9; asst. zool., Univ. Wis., 1909–11; asst. prof. zool., Clemson Agr. Coll., 1911–2; prof. biol., Univ. S. C., 1913–4; prof. biol., Emory Univ., 1914–8; present position, 1918—. *b.* Union, S. C., Sept. 18, 1888; *s.* Reuben Thompson and Gertrude (Gist) G.; reared in town and on farm. B.S., Clemson Agr. Coll., 1908; M.A., Univ. S. C., 1910; Ph.D., Univ. Calif., 1913. Sigma Xi.

Geib, Warren Jacob, asst. prof. soils, Univ. Wis., Madison, Wis.

Soil survey field work, Bur. Soils, U. S. Dept. Agr., 1903–10; chg. work of Bur. in Wis. and Wis. Soil Survey, 1910—; asst. prof. soils, Univ. Wis., 1914—. Sec.-treas. Wis. Soil Improvement Assoc. *Auth.:* Hints to Homeseekers, 1913. *Ed.*-in-chief, The Journal of Soil Improvement. *b.* Kent Co., Mich., Jan. 6, 1880; *s.* Valentine and Ellen (Bowman) G.; reared on farm; *m.* Edith R. Dresser, Sept. 28, 1904; *c.* Donna Sterling. B.S., Mich. Agr. Coll., 1902; M.S., 1915.

Gelder, Jay, co. agrl. agt., Essex, N. Y.

Farmer, Bath, N. Y., 10 yrs.; manag. Adirondack Farms, Glen Falls, 3 yrs. *b.* Bath, N. Y., Jan. 21, 1870; *s.* Jas. and Mary (Covell) G.; reared on farm; *m.* Dora L. Huston, Aug. 12, 1897. Grad. Eastman Business Coll., Poughkeepsie, N. Y., 1893.

Gentry, Josiah Collins, co. agrl. agt., Harrodsburg, Ky.

b. Boyle Co., Ky., Apr. 5, 1873; *s.* Richard C. and Mary Ellin (Bonta) G.; reared on farm.

George, Clayton R., assoc. in dairy husb. ext., Purdue Univ., LaFayette, Ind.

Asst. an. husb., Univ. Calif., 1912–4; present position, 1914—. Sec. Ind. State Dairy Assoc. *b.* New Lisbon, Ind., Jul. 20, 1891; *s.* Cary and Emma Jane (Fye) G.; reared on farm; *m.* Grace Bessie Apple, June 23, 1915; *c.* Mary Jane. B.Sc., Ohio State Univ. 1912.

Georgeson, Charles Christian, agron. in chg. Alaska Exp. Sta., Sitka, Alaska.

Asst. ed. Rural New-Yorker, 1878–80; prof. agr. and hort., Tex. A. & M. Coll., 1880–3; prof. agr., Imperial Univ., Tokyo, Japan, 1886–9; prof. agr., Kans. State Agr. Coll., 1890–7; special agt., Off. Exp. Stas., U. S. Dept. Agr., chg. Alaska invests., 1898–1912; present position, 1912—. Fellow A. A. A. S. Special agt., U. S. Dept. Agr. to investigate dairy ind. in Denmark, 1893. *b.* Isl. of Langeland, Denmark, June 26, 1851 (naturalized 1880); *s.* J. C. and Jorgine (Hansen) G.; reared on farm and in village; *m.* Margaret Thompson Lovett, Jan. 2, 1882; *c.* Dagmar, Rosemary, Valdemar Lovett. B.S., Mich. Agr. Coll., 1878; M.S., 1882; D.Sc., 1916.

Gericke, William Frederick, asst. prof. soil chem., Univ. Calif., Berkeley, Calif.

Instr. soil chem., Univ. Calif., 1912–6; asst. prof., 1916—. Fellow A. A. A. S. *b.* Fremont, Neb., Aug. 30, 1884; *s.* Chas. L. and Fredericka (Weiersausen) G.; reared on farm; *m.* Stella Agnes Hartzell, May 28, 1912. B.S.A., Ia. State Coll., 1912; M.S., Univ. Calif., 1915.

Gernert, Walter Byron, co. agrl. agt., Paris, Ill.

Asst. to asst. prof. plant-breeding, Univ. Ill., 1911–8. *b.* Fredericksburg, Pa., Sept. 2, 1881; *s.* Hiram and Lucy (Kirst) G.; reared on farm and in town; *m.* Emma Rohweder, Jul. 2, 1917. B.S., Kans. State Agr. Coll., 1907; M.S., Univ. Ill., 1909; Ph.D., 1911.

Getty, Robert Ellsworth, sci. asst., Off. Forage Crops, U. S. Dept. Agr., Hays, Kans.

b. Waco, Neb., May 19, 1891; *s.* Reuben F. and May Evelyn (Garton) G.; reared on farm. A.B., York Coll., Neb., 1911; B.S.A., Univ. Neb., 1913.

Gibson, Heber Howard, dir. agrl. educ. for Vt., Montpelier, Vt.

Farm operator, O., 6 yrs.; Neb., 1 yr. Head dept. agr. and biol., Kearney State Normal Sch., 1915–6; dir. practice teaching in agr., Ia. State Coll., 1916–7; present position, 1917—. *b.* Gibson, O., Sept. 18, 1884; *s.* Samuel and Ella (Hafer) G.; reared on farm; *m.* Edith Grace Pattengill, Aug., 1910; *c.* Howard, Warren. A.B., Denison Univ., 1909; A.M., Columbia Univ., 1912; student Cornell Univ., 2 yrs.

Gifford, John Clayton, special agt. trop. agr. and for., Cocoanut Grove, Fla.

Instr. econ. bot., Swarthmore Coll., 1890–4; for., N. J. Geol. Survey, 1895–6; asst. prof. for., Cornell Univ., 1900–3; special agt., U. S. Dept. Agr., 1904. *Auth.:* Practical Forestry, 1901; The Everglades of Florida, 1911; Forests of New Jersey. *b.* May's Landing, N. J., Feb. 8, 1870; *s.* Daniel and Emily (Frazier) G.; reared in small town; *m.* Edith Wright, May, 1896. B.S., Swarthmore Coll., 1890; D.OEc., Univ. of Bavaria, Munich, 1899.

Gifford, John Edwin, co. agrl. agt., Rockville, Conn.

Stock farmer, 20 yrs.; instr. an. husb., Essex Co. Agr. Sch., Mass., 3 yrs. Sec. Worcester Agrl. Soc., 2 yrs. *b.* Brockton, Mass., Oct. 1, 1873; *s.* Thaddeus E. and Phebe E. (Brightman) G.; reared on farm; *m.* Luella Mary Dudley, Dec. 19, 1904; *c.* Chas. Edwin. B.S., Mass. Agr. Coll., 1894. Kappa Sigma.

Gilbert, Arthur Witter, sec. agrl. dept., Chamber of Commerce, Boston, Mass.

Instr. agr. and superv. ext. courses, Univ. Me., 1905–6; asst. prof. agron., 1906–7; fellow Cornell Univ., 1907–8; asst. prof. plant-breeding, Cornell Univ., 1909–11; prof., 1911–6; present position, 1916—. Dir. Chautauqua Sch. Practical Agr., summers, 1908–10. Fellow A.A. A.S. Mem. council, Am. Genetic Assoc.; sec. N. Y. Plant Breeders' Assoc. Milk administrator of New England and sec. New England Regional Milk Comn. Farm operator. *Auth.:* (with Bailey) Plant-Breeding, 1915; The Potato, 1917. *b.* W. Brookfield, Mass., Apr. 20, 1882; *s.* Lewis A. and Louise (Brigham) G.; reared on farm and in town; *m.* Susan Grace Cooper, June 8, 1910; *c.* Vincent Cooper, Ann Louise. B.S., Mass. Agr. Coll., 1904; B.S., Boston Univ., 1904; M.S.A., Cornell Univ., 1905; Ph.D., 1909. Sigma Xi; Phi Kappa Phi; Alpha Sigma Phi; Alpha Zeta.

Gilbert, Boyd Duane, co. agrl. agt., Bd. of Trade Bldg., Scranton, Pa.

b. Rodman, N. Y., Apr. 16, 1885; *s.* Wm. R. and Estelle M. (Brown) G.; reared in village; *m.* Lena F. Butler, June 11, 1912. B.S.A., Cornell Univ., 1910.

Gilbert, George Henry, dir. Bristol Co. Agr. Sch., Segreganset, Mass.

b. Barre, Mass., Jan. 1, 1879; *s.* Wm. and Rosa M. (Goss) G.; reared on farm; *m.* Florence M. King, Dec. 15, 1913; *c.* Florence Beatrice. Ph.B., Boston Univ., 1901; grad. work Mass. Agr. Coll. Theta Delta Chi.

Gilbert, William Williams, plant path., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

b. Dorset, Vt., Sept. 17, 1880; *s.* Frederick V. and Mary (Williams) G.; reared on farm; *m.* Ottonie Elizabeth Ulrickson, June 24, 1907; *c.* Henry Philip. B.S.A., Univ. Vt., 1904; M.S., 1909; grad. student Univ. Wis., 1912, George Washington Univ., 1913–4, Columbia Univ., 1914–5.

Gilbertson, Henry Walter, asst. in administration of co. agt. work, States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Princ. graded schs., Minn., 1905–7; farm manag. invest., U. S. Dept. Agr., 1911–2; agrl. agt. Sussex Co., N. J., 1913–4; present position, 1915—. *b.* Rock Co., Minn., Nov. 19, 1881; *s.* Lewis H. and Mary (Qualley) G.; reared on farm; *m.* Maud Hubbard, 1911; *c.* Gertrude, Warren, Kenneth. B.S.A., Univ. Minn., 1910; M.S.A., Cornell Univ., 1911.

Gilkey, Royal, asst. prof. in ext. serv. and superv. reading courses for the farm, Cornell Univ., Ithaca, N. Y.

Tech. asst., Bur. Farmers' Insts., N. Y. State Dept. Agr. and clerk dairy products dept., N. Y. State Fair, 1909–11; instr. and superv. mailing room, Coll. Agr., Cornell Univ., 1911–4; officer, Sch. for Leadership in Country Life, 1912–4; present position, 1914—; asst. prof. pom., summer 1918. Farm operator. *b.* Watertown, Mass., Mar. 17, 1886; *s.* James H. and Mary L. (Johnson) G.; reared in town and country; *m.* Eunice W. Jackson, Jan. 20, 1914; *c.* Eunice W. B.S.A., Cornell Univ., 1908. Alpha Zeta.

Gill, Charles O., clergyman, 104 N. 3d St., Columbus, O.

Foreign missionary in Peking, China, 1895–7; Congregational pastor, Westmore, Jericho Center, Hartland, Vt., W. Lebanon, N. H., 1893–5, 1897–1909; rural church invest., Fed. Council of Churches of Christ in Am., 1913–5. Mem. Am. Comn. to Europe for study cooperation; sec. comn. on church and country life, Fed. Council of Churches of Christ in Am., 1915–8. Collaborator: (with Pinchot) The Country Church, 1913. *b.* Walpole, Mass., Mar. 4, 1868; *s.* John and Ellen (Metcalfe) G.; reared in city and on farm; *m.* Mary A. Nelson, Sept., 1895; *c.* Laura Metcalfe, Stanley, Chas. F. A.B., Yale Univ., 1889; B.D., Union Theol. Sem., 1894. Delta Kappa Epsilon.

Gillette, Clarence Preston, head dept. zool. and ent. and dir. Exp. Sta., Colo. Agr. Coll., Fort Collins, Colo.

Asst. zool. and ent., Mich. Agr. Coll., 1887; ent., Ia. Exp. Sta., 1888–90; head dept. zool. and ent., Colo. Agr. Coll., 1891—; dir. Colo. Exp. Sta., 1910—; state ent., Colo., 1907—. Fellow A. A. A. S. Specialty, studies of Aphididae. *b.* Lyons, Mich., Apr. 7, 1859; *s.* Wm. H. and Larissa E. (Preston) G.; reared on farm; *m.* Clara M. Smith, Mar. 31, 1886; *c.* Florence M., Nola Esther. B.S., Mich. Agr. Coll., 1884; M.S., 1889; D.Sc., 1917. Sigma Xi; Alpha Zeta.

Gillette, Lester S., assoc. prof. dairy husb., Ia. State Coll., Ames, Ia.

Instr. dairy husb., Ia. State Coll., 1914–5; asst. prof., 1915–7; assoc. prof. in chg., 1917—. *b.* Fostoria, Ia., June 28, 1892; *s.* Wm. R. and Eunice (Ulrey) G.; reared on farm; *m.* Cecilia E. Murray, Oct. 11, 1917. B.S., Ia. State Coll., 1913; A.M., Univ. Mo., 1914. Sigma Xi; Phi Kappa Phi; Delta Sigma Rho; Alpha Zeta.

Gilmore, Frank Forster, ed. Kentucky Farming, Louisville, Ky.

State dir. Nat. Market and Farm Credits' Assoc. Dir. Ky. Alfalfa Growers' Assoc. Rice-grower, S. C., 5 yrs.; farmer and dairyman, Ky., 8 yrs. *b.* Griffin, Ga., Apr. 10, 1856; *s.* Thomas K. and Anna Eliza (Forster) G.; reared in country; *m.* Alice Forster, Jan. 8, 1881; *c.* F. F. Jr., Alice F.

Gilmore. John Washington, prof. agron., Univ. Calif., Berkeley, Calif.

Asst. to dir. Hupeh Agr. Sch., Wuchang, China, 1898–1900; instr. agr., Normal Sch., Honolulu, H. I., 1900–1; organizer agrl. schools, Manilla, P. I., 1901–2; instr. to asst. prof. agron., Cornell Univ., 1902–7; prof. agron., Penn. State Coll., 1907–8; pres. Coll. of Hawaii, Honolulu, 1908–13; present position, 1913—. Fellow A. A. A. S. Mem. Jury Awards, Panama-Pacific Expos., 1915. *b.* White Co., Ark., May 9, 1872; *s.* Thos. Griffin and Emily Frances (Landrum) G.; reared on farm; *m.* Elizabeth M. Hitchcock, Aug. 23, 1900; *c.* J. Landrum, Raymond M., Harold V. B.S.A., Cornell Univ., 1898; M.S.A., 1906. Sigma Xi; Alpha Zeta.

Gilmore, William James, prof. farm mech., Ore. Agr. Coll., Corvallis, Ore.

Asst. prof. agrl. engin., Man. Agr. Coll., 1911–5; asst. prof. farm mech., Ore. Agr. Coll., 1915–6; prof., 1916—. In chg. Federal threshing machine smut explosion and collection invests. of Pacific Northwest. Del. to Agrl. Engin. Convention, Chicago, 1914; Road Conference, Ia. State Coll., 1914. *b.* Ames, Ia., Aug. 8, 1884; *s.* W. J. and Jerusha (Norton) G.; reared on farm; *m.* Faith H. Clark, Aug. 23, 1911; *c.* Junior. B. of C.E., Ia. State Coll., 1909; B.S. in A.E., 1911. Phi Kappa Psi.

Giltner, Ward, prof. bact. and hygiene and bact. Exp. Sta., Mich. Agr. Coll., E. Lansing, Mich.

Farm operator, 1901–3; instr. bact. and asst. vet. sci., asst. state vet., Ala.

Exp. Sta., 1906–8; research asst. bact. and instr., Mich. Agr. Coll., 1908–12; acting prof. bact. and hygiene, 1912–5; prof., 1915—. State vet. of Mich., 1912–4; mem. State Vet. Registry Bd., 1915. *Auth.:* Laboratory Manual in General Microbiology, 1916. *b.* Ithaca, N. Y., Apr. 5, 1882; *s.* Richard Dana and Frances Victoria (Knickerbocker) G.; reared on farm and in city; *m.* Mabel A. Decker, Dec. 20, 1902; *c.* Dorothy D., Alice, Elizabeth, Wm. Ward. D.V.M., Cornell Univ., 1906; M.Sc., Ala. Poly. Inst., 1908. Sigma Xi; Alpha Psi.

Gist, Russell Henderson, co. agrl. agt., Abingdon, Va.

b. Wellsburg, W. Va., Aug. 10, 1891; *s.* Samuel C. and Annie C. (Applegate) G.; reared on farm; *m.* Estella Fitch, June 5, 1917. B.S.A., W. Va. Univ., 1915. Sigma Nu.

Glasson, Edwin James, specialist in hort. and for. and assoc. ed. Experiment Station Record, States Relations Serv., U. S. Dept. Agr., Washington, D. C.

b. Troy, N. Y., Sept. 6, 1878; *s.* John and Agnes Allen (Pleming) G.; reared in city; *m.* Bertha Herman Mullikin, Sept. 21, 1906; *c.* Elizabeth Pleming, James Herbert. B.S.A., Cornell Univ., 1903. Alpha Zeta.

Glenn, Charles Cranston, in chg. U. S. Ostrich Farm, Glendale, Ariz.

Former dir., sec.-treas. Percheron Registry Co. and French Coach Horse Registry Co. *b.* Columbus, O., Apr. 20, 1871; *s.* Chas. Scott and Sallie Ann (Gorrell) G.; reared in town; *m.* Olive-Branch Messick, Jul. 19, 1905; *c.* Frances.

Glover, George Henry, head div. vet. med., Colo. Agr. Coll., Fort Collins, Colo.

Practised in Denver, 1887–91; insp. on Nation Cattle Trail, 1891–1900; present position, 1900—. City food insp., Fort Collins, 1907—. Pres. Am. Vet. Med. Assoc., 1911; pres. Colo. Vet. Med. Assoc., 1909; pres. Am. Vet. Assoc. of Coll. Faculties and State Examining Bds., 1911. *b.* Waterloo, Ia., Apr. 2, 1864; *s.* Russel Bliss and Emily Cook (Garland) G.; *m.* Margaret J. Glover, Nov. 19, 1887. B.S., Colo. Agr. Coll., 1884; M.S., 1903; D.V.M., Ia. State Coll., 1885. Alpha Psi.

Gobble, Carl Flindt, asst. prof. an. husb., Purdue Univ., LaFayette, Ind.

Student asst. farm crops, Ia. State Coll. Traveled in Europe. *b.* Abingdon, Ia., Sept. 7, 1885; *s.* Lee T. and Margaret (Flint) G.; *m.* Cecilia M. Greenleaf, June 18, 1913; *c.* Virginia, James Lawrence. B.S., Ia. State Coll., 1911. Delta Upsilon; Alpha Zeta.

Goddard, Loring Hapgood, agrst. in chg. farm manag. dem., States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Organized ext. dept., Ohio Exp. Sta., 1904; present position, 1913—. Farmer, Bloomingburg, O. *b.* Washington Co., O., Dec. 21, 1868; *s.* George Rodney and Esther Jane (Smith) G.; reared on farm; *m.* Ina Belle Rogers, Aug. 15, 1894; *c.* Verz Rogers. C.E., Ohio State Univ., 1892. Sigma Chi.

Gold, Charles Lockwood, farmer, W. Cornwall, Conn.

Mem. State Bd. Agr. *b.* Cornwall, Conn., Apr. 14, 1863; *s.* Theo. S. and Emma (Talcott) G.; reared on farm; *m.* Clara Sedgwick, Dec. 19, 1900; *c.* Theo Sedgwick, James Douglas, Benj. Cleveland. Ph.D., Yale Univ., 1883.

Gomme, William Henry Francis, co. agrl. agt., Tavares, Fla.

Employed at Royal Bot. Gardens, England, 1895–1903; part owner and general manag., Oakhurst Nursery Co., Jennings, La., 1903–6; manag. Exp. Farm, Heywood Oil Co., San Bonito, Tex., 1906–7; asst. farm supt. and expert, U. S. Dept. Agr., 1907–16; dem. agt. Lake Co., Fla., 1916—. Traveled in Europe. *b.* Hampshire, England, June 1881 (naturalized 1910); *s.* Frank and Alice (Embleton) G.; *m.* Martha Putnam, Oct. 1905; *c.* Elmer. Educ. London Philological Coll. and Royal Bot. Garden Sch.

Good, Edwin Stanton, prof. an. husb. and chm. an. ind. group, Univ. Ky., Lexington, Ky.

Instr. and invest. beef cattle, Univ. Ill., 1903–6. Invest. live-stock conditions in Europe, 1905. *b.* Clarence Center, N. Y., Mar. 16, 1871; *s.* John and Esther (Hummel) G.; reared on farm; *m.* Louise Austin Millikan; *c.* John Wolcott. B.S., Mich. Agr. Coll., 1903;

M.S., Univ. Ill., 1906. Sigma Xi; Alpha Zeta.

Good, William Charles, farmer, Paris, Ont.
Asst. chem., Ont. Agr. Coll., 1902–3; farmer, 1903—; lect. on rural econ., Macdonald Coll., 1913–4. Pres. United Farmers' Coop. Co., 1914; vice-pres. United Farmers of Ont., 1917; pres. Brant Farmers' Coop Soc., 1918. *b.* near Brantford, Ont., Feb. 24, 1876; *s.* Thos. Allen and Mary Addington (Ballachey) G.; reared on farm; *m.* Jean Fairbairn McCormick, Dec. 3, 1908; *c.* Elizabeth A., Allen C., Wm. A., Norman E. B.A., Univ. Toronto, 1900.

Goodman, Alpheus Mansfield, dairy husb. in chg. Denison Dairy Dem. Farm, Denison, Tex.
b. Salisbury Mills, N. Y., Jan. 29, 1885; *s.* Alpheus and Eunice (Denniston) G.; reared on farm; *m.* Clara Witmer Browning, Jul. 12, 1916; *c.* Clara Ellsworth. B.S.A., Cornell Univ., 1912.

Goodwin, Ozias T., ext. specialist dairy manufactures, Mich. Agr. Coll., E. Lansing, Mich.
Instr. an. husb., Univ. Ga., 1913–5; adj. prof., 1915–8 ; present position, 1918—. *b.* Ionia, Mich., Jan. 27, 1889; *s.* C. I. and Sophia (Ursula) G.; reared on farm; *m.* Corrine Wolverton, Aug. 22, 1917. B.S.A., Mich. Agr. Coll., 1913. Alpha Zeta.
[Goodwin, W. R., p. 311.

Gordon, Morris Meriwether, co. agrl. agt., Fulton, Ky.
Dairy farmer, Va., 1 yr.; manag. commercial orchard, Tenn., and farmer, 4 yrs.; present position, 1917—. *b.* Todd Co., Ky., Feb. 7, 1891; *s.* James Morris and Nancy (Meriwether) G.; reared on farm; *m.* Mollie Ferguson, Apr. 2, 1918. B.A., Wilmington Coll., O., 1909; B.S.A., Bethany Coll., W. Va., 1917. Kappa Alpha.

Gore, Thomas Pryor, senator, Lawton, Okla.
Sch. teach., 1890–1; began practice of law in Miss., 1892; removed to Tex., 1895. Mem. Okla. Territorial Council, 1903–5; U. S. Senator from Okla., 1907–9, 1909–21. Mem. exec. com., Dem. Nat. Com., 1912—. Mem. U. S. Rural Credit Comn.; chm. com. on agr. and for., U. S. Senate, 63, 64, 65 Congresses. *b.* Webster Co., Miss., Dec. 10, 1870; *s.* Thos. Madison and Carrie Elizabeth (Wingo) G ; *m.* Nina Kay, Dec. 27, 1900. B.L., Cumberland Univ., Tenn., 1892.

Gorham, Willis Ray, asst. prof. agrl. ext., Penn. State Coll., State College, Pa.
Manag., Hall Farms, Halls, Pa., 1905–18; Elizabeth Farms, Brickerville, Pa., 1910–3. *b.* Coudersport, Pa., Nov. 4, 1879; *s.* Chas. W. and Anner (Clark) G.; reared on farm.; *m.* Josephine Homer, Nov. 25, 1916; *c.* Fordyce Homer. B.S., Penn. State Coll., 1904. Alpha Zeta.

Gortner, Ross Aiken, prof. agrl. bio-chem. and chief div. agrl. bio-chem. Exp. Sta., Univ. Minn., St. Paul, Minn.
Research asst. agrl. chem., Univ. Neb., 1906–7; asst. chem., Faculty Arts, Univ. Toronto, 1907–8; resident invest. biol. chem., Sta. for Exp. Evolution of Carnegie Inst. of Washington, Cold Spring Harbor, N. Y., 1909–14; assoc. prof. soil chem., Univ. Minn. and assoc. soil chem., Exp. Sta., 1914–6; assoc. prof. agrl. biochem. and assoc. agrl. biochem. Exp. Sta., 1916–7; present position, 1917—. Fellow Chem. Soc., London,; mem. Société Chemique (France). *Asst. ed.*, Chemical Abstracts, Bio-Chem. Bull. *b.* near O'Neill, Neb., Mar. 20, 1885; *s.* Joseph Ross and Louisa E. (Waters) G.; reared on farm; *m.* Catherine V. Willis, Aug. 4, 1909; *c.* Flora Catherine, Ross Aiken Jr., Willis Alway, Alice Louise. B.S., Neb. Wesleyan Univ., 1907; M.A., Univ. Toronto, 1908; Ph.D., Columbia Univ., 1909. Sigma Xi; Phi Lambda Upsilon; Alpha Zeta.

Goss, Chester Allen, assoc. ed. Successful Farming, Des Moines, Ia.
Head dept. agr., Drake Univ., Des Moines, Ia., 1915–6; present position, 1916—. *b.* Huron, S. D., Aug. 21, 1892; *s.* Geo. P. and Edna (Fox) G.; reared on farm; *m.* Edna Nichols, Dec. 28. 1916. B.S.A., Ia. State Coll., 1915. Sigma Delta Chi.

Goss, Emery Fox, assoc. prof. dairying and head dept., Univ. Ida., Moscow, Ida.
Asst. prof. dairying, Univ. Ida., 1916–7; head dept., 1917—. *b.* Huron, S. D., Feb. 23, 1891; *s.* Geo. P. and Edna Belle (Fox) G.; reared on farm; *m.* Amy L. Middleton, Aug. 10, 1916. B.S., Ia. State

Coll., 1915; M.S., 1916. Phi Kappa Phi; Phi Lambda Upsilon.

Goss, Leonard Whittlesey, prof. path., Kans. State Agr. Coll., Manhattan, Kans.

Asst. vet. sci., Kans. State Agr. Coll., 1905–7; instr., 1907–9; asst, prof., 1909–13; prof. path., 1913—. State sec. for Am. Vet. Med. Assoc. *b.* Edinburg, O., Apr. 26, 1877; *s.* Ambrose S. and Clara (Whittlesey) G.; reared in village; *m.* Florence Joyce, Sept. 7, 1908; *c.* Clara Louise, Leonard Joyce. D.V.M., Ohio State Univ., 1905; student Berlin Vet. Coll., 1911–2. Alpha Psi; Phi Kappa Phi.

Goss, Winfield Scott, co. agrl. agt., Franklin, Va.

Asst. princ. Ives Sem., Antwerp, N. Y., 1890–1; prof. Latin and Greek, Straight Univ., New Orleans, 1891–4; pres. Tillotson Coll., Austin, Tex., 1894–6; dean and prof. Latin, Tallagega Coll., Ala., 1896–1904; prof. agr., 1904–8; manag. coll. farm, Warsaw, Ind., 1908–16; co. agt., 1916—. *b.* Concord, Vt., Apr. 12, 1861; *s.* Levi and Martha (Chase) G.; reared on farm; *m.* Laura M. Messick, May 24, 1894; *s.* Richard M., Theodore C. A.B., Wesleyan Univ., 1890.

Gossard, Harry Arthur, ent., Ohio Exp. Sta., Wooster, O.

Asst. ent., Ia. Exp. Sta., 1890–2; princ. Albion Sem., 1893–5; instr. sci., high-schs., Rochester, Minn. and Princeton, Ill., 1895–8; prof. ent., zool. and geol., Univ. Fla., 1899–1904; ent., Fla. Exp. Sta., 1899–1904; present position, 1904—. Fellow A. A. A. S. Copartner in Summit Nurseries, Monticello, Fla., 1904—. *b.* Ames, Ia., Feb. 7, 1868; *s.* Thos. M. and Sarah J. (Emery) G.; reared on farm; *m.* Lora H. Clark, Jul. 21, 1903; *c.* Atherton Clark, Thos. Emery, Harold Arthur. B.S., Ia. State Coll., 1889; M.S., 1892. Phi Kappa Phi.

Gould, Harris Perley, pom., U. S. Dept. Agr., Washington, D. C.

Asst. hort., Me. Exp. Sta., 1892–6; asst., Cornell Univ. Exp. Sta., 1897–8; nursery and orchard insp., N. Y. State Dept. Agr., 1898–9; asst. ent., Md. Agr. Coll. and Exp. Sta., 1899–1900; acting ent. and asst. hort., 1901; asst. pom. and pom., U. S. Dept. Agr., 1901—. Sec. Md. State Hort. Soc., 1901. *Auth.:* Peach-Growing, 1918. *b.* North Bridgton, Me., Sept. 6, 1871; *s.* Chas. H. and Bethia S. (Wadsworth) G.; reared on farm; *m.* Alice H. Peabody, Apr. 24, 1905; *c.* Lawrence P. B.S., Univ. Me., 1893; M.S., Cornell Univ., 1897. Beta Theta Pi.

Gourley, David, Pleasant Grove distr. agrl. superv. and co. agrl. agt., St. George, Utah.

Head agrl. dept. and manual arts, Dixie Normal Coll., St. George, Utah, 1911–6; present position, 1916—. *b.* Goshen, Utah, Dec. 31, 1884; *s.* Geo. and Mary Elizabeth (Broadbent) G.; reared on farm; *m.* Dora West, June 17, 1908; *c.* Gertrude, Maurine, Geo., Lea, Rex. A.B., Brigham Young Univ., 1915.

Gourley, Joseph Harvey, prof. hort., N. H. A.&M. Coll. and hort. Exp. Sta., Durham, N. H.

Asst. hort., Ohio Exp. Sta., 1908–10; asst. prof. hort., Ohio State Univ., 1910–2; present position, 1912—. Vice-pres. Am. Pom. Soc. for N. H. *b.* Homer City, Pa., Jul. 1, 1883; *s* John and Lizie (Harvey) G.; reared in town; *m.* Lucy M. Kinney, June 7, 1911; *c.* Margaret Anita. B.S., Ohio State Univ., 1908; M.S., 1915, Sigma Xi; Alpha Zeta.

Gowell, Roger Locke, co. agrl. agt., Warren, Me.

b. Waterford, Me., Nov. 21, 1893; *s.* Wm. H. and Elizabeth M. (Locke) G.; reared on farm. B.S., Univ. Me., 1916. Alpha Zeta.

Grabel, Robert Elmer, sec. Chamber of Commerce, Anderson, S. C.

Pres. Boys' Ind. Sch., Ogburn, Tex., 1897–1908; sec., business manag., Grubbs' Ind. Coll., Campbell, Tex., 1908–10; business manag. and prof. agrl. commerce, E. Tex. Normal Coll., 1910–1; agrl. agt., Southern Ry., 1911–6; sec. Chamber of Commerce and Agr., Gaffney, S. C., 1916–8; present position, 1918—. *b.* Whitt, Tex., Dec. 7, 1874; *s.* V. L. and Jane (Cranfill) G.; reared on farm; *m.* Daisy Dean Miller, June 21, 1905; *c.* Robt. M. Grad. Add-Ran Univ., Thorp Spring, Tex., 1890.

Graber, Laurence Frederick, asst. prof. agr., Univ. Wis., Madison, Wis.

Sec. and organizer, The Alfalfa Order.

Del. Nat. Corn Show, Columbia, S. C., Dallas, Tex.; Panama-Pacific Expos. Special attention to alfalfa. *b*, Mineral Point, Wis., Mar. 5, 1887; *s*. Louis and Salome (Engels) G.; reared on farm. B.S., Univ. Wis., 1910; M.S., 1912. Alpha Zeta.

Gracy, Brainard Bradshaw Jr., co. agrl. agt., Loudon, Tenn.
Instr. sci. and hist., Rhea Co. high-sch., Tenn., 1915–7; present position, 1917—. *b*. Smyrna, Tenn., Sept. 11, 1891; *s*. Brainard Bradshaw and Mittie (Moore) G.; reared on farm; *m*. Emma Belle Adkerson, May 9, 1916; *c*. Martha Moore. B.S.A., Univ. Fla., 1915.

Graddy, Ivan Clay, co. agrl. agt., Greenville, Ky.
b. McClean Co., Ky., Nov. 28, 1894; *s*. W. L. and Priscilla (Tucker) G.; reared on farm; *m*. Alfretta Dun, Feb. 24, 1918. B.S.A., Univ. Ky., 1917.

Graf, John Enos, ent. in chg. sweet potato weevil invests., Bur. Ent., U. S. Dept. Agr., Washington, D. C.
b. Banning, Calif., May 28, 1889; *s*. Conrad and Marie (Frey) G.; reared in small town. A.B., Pomona Coll., 1910.

Graham, Albert B., agrl. ext. specialist, States Relations Serv., U. S. Dept. Agr., Washington, D. C.
Supt. rural schs., 10 yrs.; supt. agrl. ext., Ohio State Univ., 1905–14; chg. ext. work, N. Y. State Sch. Agr., Farmingdale, L. I., 1914–5; present position, 1915—. *b*. Champaign Co., O., Mar. 13, 1868; *s*. Joseph A. and Esther P. (Reeder) G.; reared on farm and in village; *m*. Maud Keyee Lauer, Aug. 14, 1890; *c*. Emerson Blair, Rettie Elizabeth, Walter Scott, Helen Esther, Joseph Raymond. B.S., Nat. Normal Univ., Lebanon, O., 1888.

Graham, John Cameron, prof. poultry husb. and head dept., Mass. Agr. Coll., Amherst, Mass.
Pres. Am. Assoc. Instrs. and Invests. in Poultry Husb. State leader poultry club work. *b*. Wayne, Wis., Oct. 31, 1868; *s*. Chas. W. and Margaret (Hay) G.; reared on farm; *m*. Jennie L. Jenkins, Dec. 25, 1894; *c*. Leland, Doris, Ruth. B.S.A., Univ. Wis., 1911.

Graham, Robert, prof. an. path., Univ. Ill., Urbana, Ill.
Prof. vet. sci., Univ. Ky., 1912–7; Ky. state vet., 1913–4; path., Ky. State Live-Stock Sanitary Bd., 1916–7; present position, 1917—. Lieut., U. S. Army, 1918—. *b*. Ames, Ia., Jul. 16, 1888; *s*. Thos. J. and Myra L. (Hoover) G.; reared in town; *m*. Lucy Keller Hutchcraft, Aug. 30, 1917. D.V.M., Ia. State Coll., 1910; M.S., Univ. Ky., 1912. Beta Theta Pi; Alpha Zeta.

Graham, William Alexander, comnr. agr., Raleigh, N. C.
Farmer, 1865—. Mem. N. C. Senate, 1874–82; House of Rep., 1905; present position, 1908—. Pres. N. C. Farmers' Alliance. Major Confederate Army. Asst. Adjt. Gen. of N. C., 1863–5. *Auth.:* History of South Fork Baptist Association, 1900; Gen. Joseph Graham and His Revolutionary Papers, 1904. *b*. Hillsboro, N. C., Dec. 26, 1839; *s*. Wm. A. and Susan (Washington) G.; reared in town and on farm; *m*. Julia R. Lane, June 8, 1864 (d. 1909); 2d, Sallie Clark, Nov. 4, 1915; *c*. Florence L., Susan W., Julia Evelyn, W. A. Jr., Elizabeth Hill, Sophie Alexander, Mattie Lawson, Carrie Brevard, Ellen Wayles, Evelyn B., Joseph. A.B., Princeton Univ., 1860. Sigma Phi.

Gramlich, Howard John, prof. an. husb., Univ. Neb., Lincoln, Neb.
Sec. Neb. Improved Live-Stock Breeders' Assoc., 1914—. *b*. Omaha, Neb., Jan. 26, 1889; *s*. J. N. and Josie M. (Gramlich) G.; reared on farm. B.S., Univ. Neb., 1911. Alpha Zeta.

Graser, Herman Ira, co. agrl. agt., Grass Valley, Calif.
b. Riverside, Calif., Feb. 22, 1892; *s*. Philip D. T. and Tomassa (Jensen) G.; reared on farm; *m*. Myrtle R. Burson, 1916; *c*. Doris Myrtle. B.S., Univ. Calif., 1915. Lambda Chi Alpha; Alpha Zeta.

Grass, Joseph Fernand Jr., co. agrl. agt., Merced, Calif.
Farmer, 1914—. *b*. New Orleans, La., Jan. 2, 1890; reared on farm. B.S., Ia. State Coll., 1914. Phi Kappa Psi.

Grattan, John, farmer, Broomfield, Colo.
b. Waukan, Ia., Dec. 17, 1869; *s*. Henry G. and Rose Anna (Bryant) G.;

reared on farm; *m.* Vinnie Williams; *c.* 5 sons. Student S. D. State Coll. and Ia. State Coll.

Graves, Charles Hicks, farm manag. dem., Mich. Agr. Coll., E. Lansing, Mich.
b. Sunderland, Vt., Jan. 13, 1890; *s.* Edmund A. and Harriet S. (Way) G.; reared on farm. B.S., Cornell Univ., 1916. Traveled in S. America, 10 mos.

Graves, George West, asst. superv. agr., Los Angeles city schs., 295 Grand Ave., Riverside, Calif.
Farmer and teach. agr., high-sch., Calif., 1912–5; present position, 1915—. In U. S. Army, 1918—. Traveled in Europe. *b.* Cedar Rapids, Ia., May 1, 1886; *s.* Walter R. and Alice M. (Stolp) G.; reared in city and on farm; *m.* Ella Hard Macklin, Dec. 16, 1913. Ph.B., Univ. Chicago, 1908; M.S.A., Wash. State Coll., 1912. Phi Gamma Delta; Alpha Zeta.

Graves, Henry Solon, chief U. S. For. Serv., Washington, D. C.
Prof. for. and dir. For. Sch., Yale Univ., 1900–10; chief U. S. For. Serv., 1910—. Mem. Nat. Conservation Comn., 1908. Lieut.-Col. Corps of Engineers, Nat. Army overseas service, June 1917–Feb. 1918. Mem. Nat. Research Council. *Auth.:* Forest Mensuration, 1906; Principles of Handling Woodlands, 1911; joint auth., The White Pine, 1896. *b.* Marietta, O., May 3, 1871; *s.* Wm. Blair and Lurannah (Hodges) G.; *m.* Ella Marian Welch, Dec. 19, 1903. A.B., Yale Univ., 1892; A.M., 1900; hon. A.M., Harvard Univ., 1911.

Graves, Roy Ralph, dairy cattle breeding, Bur. An. Ind., U. S. Dept. Agr., Washington, D. C.
Dairyman, U. S. Dept. Agr., 1912–3; prof. dairy husb., Ore. Agr. Coll., 1913–7; present position, 1917—. *b.* Cherokee, Kans., Oct. 8, 1886; *s.* John S. and Elizabeth (Cartright) G.; reared on farm and in city; *m.* Margaret Grace Smith, Aug. 8, 1909; *c.* Robt. Jackson, Margaret Elizabeth. B.S.A., Kans. State Agr. Coll., 1909; M.A., Univ. Mo., 1912.

Gray, Alexander Charles, prof. social sci. and hist., Eureka Coll., Eureka, Ill.
Pastor, Christian Church, Mt. Healthy, O., 1897–1905; pastor Church of Christ, Ann Arbor, Mich., 1905–8; instr. Ann Arbor Bible Chairs, 1906–8; prof. social sci. and New Testament, Eureka Coll., 1908–9; acting pres., 1909–12; prof. hist. and social sci., 1912—. Mem. Com. on Family Life, Fed. Council of Churches of Christ. Del. to Nat. Congress of Prison Reform, Indianapolis. Attention to rural sociol. *b.* Coldstream, Ont., May 8, 1867 (naturalized 1902); *s.* Angus and Christina (McKellar) G.; reared on farm; *m.* Rose H. Cameron, Sept. 30, 1897; *c.* Grace Cameron, Archibald. B.A., Univ. Toronto, 1896; M.A., Hiram Coll., 1897; M.A., Univ. Mich., 1908; B.D., Yale Univ., 1915.

Gray, James Miller, distr. agrl. agt., Asheville, N. C.
Instr agr., Brevard Inst., N. C., 1910–1; asst. dir. farmers' insts., N. C. Dept. Agr., 1911–3; agrl. agt., Durham Co. 1913–5; Gaston Co., 1916–7; distr. agt., 1917—. *b.* Cullasaja, N. C., Oct. 13, 1886; *s.* Thos. R. and Maria F. (Miller) G.; reared on farm; *m.* Mae Ethel Ingalls, Oct. 21, 1911; *c.* Frances Louise, Leila Esther. B.S., N. C. A.&M. Coll., 1910.

Gray, William F., co. agrl. agt., Woodward, Okla.
Agrst., Albert Lea high-sch., Minn., 1912–3; co. agt., Lemmon, S. D., 1913; present position, 1918—. Stock farmer, Okla., 1902–16. *b.* Arkalon, Kans., Mar. 28, 1886; *s.* Geo. C. and Etta R. (Allen) G.; reared on cattle ranch. B.S., Okla. A. & M. Coll., 1912.

Gray, William Melven, co. agrl. agt., Sanford, Me.
Teach. agr., Good Will high-sch., Hinckley, Me., 1912–3. *b.* Debec, N. B., Jan. 29, 1886 (naturalized 1914); *s.* Samuel and Barbara Ellen (Wills) G.; reared on farm; *m.* Gertrude F. Smith, Oct. 13, 1913; *c.* 1 daughter. B.S., Univ. Me., 1912. Phi Kappa Sigma.

Greaves, Joseph E., prof. bact. and physiol. chem., Utah Agr. Coll., Logan, Utah.
Asst. chem., Utah Exp. Sta., 1904–7; asst. prof. chem., 1907–10; assoc. prof. physiol. chem., Utah Agr. Coll., 1911–2; prof. bact. and physiol. chem., 1912—; chem. and bact., Exp. Sta., 1914—. *b.* Logan City, Utah, Nov. 2, 1880; *s.* Joseph C. and Catherine M. (Eames) G.; reared on farm; *m.* Pernecy Dudley, June 10, 1907; *c.* Joseph, Florence,

Pernecy, Vera, Mary. B.S., Utah Agr. Coll., 1904; M.S., Univ. Ill., 1908; Ph.D., Univ. Calif., 1911.

Green, George Rex, asst. prof. for., Penn. State Coll., State College, Pa.
Asst. state for., O., 1911–2; present position, 1912—. Insp. aeroplanes and wood tech., Naval Aircraft Factory, League Isl. Navy Yard, Philadelphia, 1918—. *b.* Glen Hope, Pa., June 29, 1884; *s.* Abram Keagy and Emma Jane (Rex) G.; reared in town and on farm; *m.* Edith Newton, Apr. 16, 1913; *c.* Geo. Rex Jr., Betty Irene. B.A., Univ. Mich., 1911; M.S., Penn. State Coll., 1915. Sigma Alpha Epsilon.

Green, John B., lawyer and editor, 121 N. Fitzhugh St., Rochester, N. Y.
Pres. Commercial Law League of Am., 1897; mem. Bd. Educ., Westfield, N. J., 9 yrs. *Auth.:* Law for the American Farmer, 1911. Mem. editorial staff, Lawyers' Coop. Pub. Co. *b.* New York City, May 17, 1850; *s.* Matthew Richard Arkwright and Sarah (Corps) G.; reared in city; *m.* Mary Annie Sinckler, Apr. 3, 1878; *c* Hilda Whitfield, Henry Merritt, Ethel Sinckler. Admitted to Bar, 1871.

Green, John Zebulon, farmer and ed., Marshville, N. C.
Organizer and lect., N. C. Farmers' Union, 1898–1918. Mem. N. C. Tax Comn. *Ed.,* Marshville Home; contributing ed., Progressive Farmer, Raleigh. *b.* Marshville, N. C., Dec. 27, 1867; *s.* James E. and Sarah (Marsh) G.; reared on farm; *m.* Ella Candle, 1896; *c.* Myron, Berge, Henry, Zeb, Kate, Inez, Nell.

Green, Roy Monroe, asst. prof. farm manag., Univ. Mo., Columbia, Mo.
Instr. farm manag., Univ. Mo., 1915–6; asst. prof., 1916—. *b.* Carrollton, Mo., Mar. 12, 1889; *s.* Calvin and Sophia (Tripp) G.; reared on farm; *m.* Mary E. Miller, May 4, 1915; *c.* 1 son. B.S.A., Univ. Mo., 1914.

Green, William John, asst. boys' club agt., Okla. A. & M. Coll., Stillwater, Okla.
Ed., Oklahoma Agriculturist, 1915–6; asst. in movable schs., Okla. A.&M. Coll., 1916–7; present position, 1917—. *b.* Ellsworth, Kans., Aug. 19, 1892; *s.* Herbert J. and Annie (Nikodin) G.; reared on farm; *m.* Gladys Lillian Burr, Aug. 20, 1917. B.S., Okla. A. & M. Coll., 1916. Alpha Zeta; Pi Kappa Delta; Gamma Zeta.

Greene, George Ogden, ext. hort., Kans. State Agr. Coll., Manhattan, Kans.
Asst. hort., Kans. State Agr. Coll., 1901–3; asst. hort., Mass. Agr. Coll., 1903–5; present position, 1912—. *b.* Lincoln, Kans., Apr. 9, 1876; *s.* Ogden N. and Mary A. (George) G.; reared on farm; *m.* Alice M. Worley, Sept. 7, 1904; *c.* Ogden. B.S., Kans. Agr. Coll., 1900; M.S., 1902.

Greene, James Henry, state leader in junior ext., Univ. Ill., Urbana, Ill.
Supt. schs., Garrett and LaGrange, Ind., 1910–4; present position, 1914—. Farmer, N. D., 1908–10. *Ed.,* Home Project Series, 1917–8. *b.* Dubuque, Ia., May 25, 1886; *s.* Joel Waring and Martha (Thomas) G.; reared in city; *m.* Flora Thomson Jones, Feb. 22, 1909; *c.* Joan Thomson. B.S.A., Univ. Ill., 1908; M.S., 1914. Phi Kappa Psi.

Greene, Laurenz, chief in hort., Purdue Univ., LaFayette, Ind.
Asst. hort., Ft. Hays Branch Exp. Sta., Kans., 1906; asst. hort., N. Mex. A. & M. Coll., 1906–7; asst. hort., Ia. State Coll., 1907–9; chief pom., Ia. Exp. Sta., 1909–17; present position, 1917—. *b.* Lincoln, Kans., May 13, 1883; *s.* Ogden N. and Mary A. (George) G.; reared on farm; *m.* Gertrude Mereness, Dec., 1911. B.S., Kans. State Agr. Coll., 1906; M.S.A., Ia. State Coll., 1909.

Greene, Mark Hindley, field agt. in marketing, Utah Agr. Coll., Logan, Utah.
Prof. farm manag., Utah Agr. Coll., 1916–7; agt. in marketing, 1917—. Traveled in Europe, 1909–10. *b.* American Fork, Utah, Dec. 11, 1888; *s.* Alva A. and Minnie (Hindley) G.; reared on farm; *m.* Alice A. Dunford, Aug. 6, 1914; *c.* Alva D., Lavinia. B.S., Utah Agr. Coll., 1913; M.S., Univ. Wis., 1915. Pi Zeta Pi.

Greene, Wesley, sec. Ia. State Hort. Soc., State House, Des Moines, Ia.
Sec. Soc. Ia. Florists; state for. comnr. Farmer, 25 yrs.; present position, 20 yrs. *Auth.:* Plants of Iowa, 1907; Hardy Herbaceous Plants, 1912. *b.* Yellow

Springs, Pa., Nov. 8, 1849; *s.* Allen J. and Sarah A. (Shannon) G.; reared on farm. B.S., Ia. State Coll., 1873; LL.B., Univ. Ia., 1875.

Gregg, John William, lands. arch. and prof. lands. gard. and flor., Univ. Calif., Berkeley, Calif.

Practising lands. arch., before 1907; prof. hort., Baron de Hirsch Sch., Woodbine, N. J., 1907–9; asst. prof. hort., Penn. State Coll., 1909–12; present position, 1912—. Del. Am. Civic Assoc.; Nat. Conference on City Planning. *b.* Weare Center, N. H., Jan. 8, 1885; *s.* Frank and Ruth (Sleeper) G.; reared on farm and in town; *m.* Mary Jennings, Jan. 24, 1906; *c.* John Jennings, Ruth Greenwood, Donald Franklin. B.S., Mass. Agr. Coll., 1904; B.S., Boston Univ. Alpha Sigma Phi.

Gregg, Orestes Isaiah, co. agrl. agt. Dearborn, Mich.

Teach. hort., Mich. Agr. Coll., 1907–11; Klamath Co. high-sch., 1915–6; agt. Wayne Co., 1917—. *b.* Bristol, N. Y., June 26, 1882; *s.* Geo. and Louisa (Case) G.; reared on farm; *m.* Irma Muzzall, Aug. 12, 1907; *c.* Glenn, Emory, Ruth. B.S., Mich. Agr. Coll., 1907.

Gregory, Charles Truman, asst. prof. plant path., Cornell Univ., Ithaca, N. Y.

Asst. plant path., Cornell Univ., 1911–2; instr., 1912–4; asst. prof., 1914—. *b.* Ithaca, N. Y., Aug. 31, 1887; *s.* E. W. and Jennie (Taber) G.; reared in city; *m.* Frances A. Feeney, 1907; *c.* Dorothea, Edgar Paul. B.S.A., Cornell Univ., 1910; Ph.D., 1914. Sigma Xi.

Gregory, Clifford Verne, ed. Prairie Farmer, 223 W. Jackson Blvd., Chicago, Ill.

Dir. Ill. farmers' inst. Vice-pres. Ill. Agrl. Assoc. Sec. Adv. Bd., Ill. Dept. Agr.; mem. Adv. Com., Ill. Exp. Sta. and Ill. State Council Defense. Farm owner. *Auth.:* Prairie Farmers' Hog Book, 1915; Songs of the Lazy Farmer, 1916. *b.* Mason City, Ia., Oct. 20, 1883; *s.* Elmer O. and Millie (McFarlin) G.; reared on farm; *m.* Edna Springs; *c.* Gwendolyn, Merrill. B.S.A., Ia. State Coll., 1910.

Greig, Alexander Rodger, prof. agrl. engin., Univ. Sask., Saskatoon, Sask.

Lect. agrl. engin., Man. Agr. Coll., 1906–7; prof., 1907–9; present position, 1909—. Mem. Bd. of Highway Comnrs. of Sask. *b.* Montreal, Que., Dec. 18, 1872; *s.* Wm. and Elizabeth (Rodger) G.; reared in city; *m.* Jessie Shaw, Sept. 1, 1897; *c.* M. Jean. B.A. Sc., McGill Univ., 1895.

Griffin, Frederick Llewellyn, assoc. prof. agr. educ., Univ. Calif., Berkeley, Calif.

Research asst., Ore. Agr. Coll., 1908–11; instr. agr., Boise high-sch., 1911–2; instr. agrl. educ., Univ. Calif., 1912–3; asst. prof., 1913; prof. agrl. educ., Ore. Agr. Coll., 1913–6; prof. rural educ., Cornell Univ., 1916–8; present position, 1918—. *b.* Pueblo, Colo., Jul. 29, 1884; *s.* Lewellyn and Martha E. (Martin) G.; reared in city and country; *m.* Annie Laurie Hill, June 21, 1909; *c.* Dorothy Laura. B.S.A., Ore. Agr. Coll., 1908; M.S.A., 1911. Gamma Sigma Delta; Phi Delta Kappa.

Griffin, Oscar Pennington, co. agrl. agt., Brownwood, Tex.

Princ. sch., Mereta, Tex., 1909–14; princ. high-sch., Miles, Tex., 1915–7. *b.* Cass Co., Tex., Jan. 8, 1879; *s.* J. M. and Mattie (Echols) G.; reared on farm; *m.* Nettie Nuckolls, Apr. 3, 1901; *c.* Hawley, Gladys, Lucile, John, Gertie, Maria.

Griffiths, David, agrst., U. S. Dept. Agr., Washington, D. C.

Teach. bot., high-sch., Aberdeen, S. D., 1893–8; prof. bot., Univ. Ariz., 1900–1; asst. agrostologist, U. S. Dept. Agr., 1901–7; agrst., 1907—. *b.* Aberystwith, Wales, Aug. 16, 1867 (naturalized); *s.* David and Rachel (Lewis) G.; reared on farm; *m.* Emigene Lily, 1907; 2d, Louise Hayward, 1915; *c.* Elizabeth Lily, John David. B.S., S.D. State Coll., 1892; M.S., 1893; Ph.D., Columbia Univ., 1900.

Grimes, Arthur Middleton, sci. asst., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

b. Baltimore, Md., Apr. 23, 1893; *s.* Chas. E. and Augusta (England) G.; reared in town. B.S., Cornell Univ., 1915. Alpha Chi Rho.

Grimes, Jay Cook, co. agrl. agt., Madisonville, Tenn.

b. Clifton, Tenn., Feb. 20, 1890; *s.* W. H. and Nannie (Cook) G.; reared on farm. B.S.A., Univ. Tenn., 1916.

Grimes, Waldo Ernest, asst. prof. farm manag., Kans. State Agr. Coll., Manhattan, Kans.

Supt. agron., Expl. Farm, Kans. Exp. Sta., 1913–4; present position, 1915—. *b.* Lee's Summit, Mo., Oct. 5, 1891; *s.* Arch T. and Anna (Hess) G.; reared on farm; *m.* Ethel Roseberry, Sept. 15, 1914; *c.* Sarah Anna, Rosethel. B.S., Kans. State Agr. Coll., 1913; grad. student, Cornell Univ. Alpha Zeta; Pi Kappa Delta.

Grindley, Harry Sands, prof. an. nutr., Univ. Ill., Urbana, Ill.

Asst. chem., Ill. Exp. Sta., 1889; Univ. Ill., 1889–92; Harvard Univ., 1892–3; instr. chem., Univ. Ill., 1894–5; asst. prof., 1895–9; assoc. prof., 1899–1904; prof. general chem. and dir. chem. lab., 1904–7; prof. an. nutr. and chief in an. nutr., 1907—. Dir. invests. of saltpeter in meat, 1907–10. *b.* Champaign, Ill., Apr. 13, 1864; *s.* Joseph S. and Sarah E. (Sands) G.; *m.* Anna Eaton, Jul. 2, 1896; B.S., Univ. Ill., 1888; Sc.D., Harvard Univ., 1894. Sigma Xi; Phi Lambda Upsilon.

Grisdale, Frank Sydney, princ. Sch. of Agr., Vermilion, Alta.

b. St. Martha, Que., Jul. 8, 1887; *s.* Albert and Elizabeth (Simpson) G.; reared on farm; *m.* Amy Leone Klein, Jul. 17, 1914; *c.* Elizabeth Klein, Marguerite Lucretia. B.S.A., Macdonald Coll. and McGill Univ., 1911.

Grisdale, Joseph Hiram, dir. Dominion Expl. Farms, Cent. Expl. Farm, Ottawa, Ont.

Traveled in Europe. *Auth.:* Milk Production in Canada, 1913. *b.* Ste. Marthe, Que., Feb. 18, 1870; *s.* Albert B. and Elizabeth (Simpson) G.; reared on farm; *m.* Laura Vipond, June 20, 1900; *c.* John Hume, Albert Joseph, Helen Laura, Simpson Vipond, Caroline. B.S.A., Ia. State Coll., 1898.

Griswold, Don T., ext. assoc. an. husb., Tex. A. & M. Coll., Bryan, Tex.

Instr. an. husb., Tex. A.&M. Coll., 1909–11; prof. an. husb., Univ. Porto Rico, 1912–3; farmer, 1913–6; present position, 1916—. *b.* Montrose, Ia., Mar. 1, 1883; *s.* James and Magnolia (Skyles) G.; reared on farm; *m.* Margaret Nortle, June 9, 1915; *c.* Margaret, Don T. B.S.A., Ia. State Coll., 1909. Alpha Zeta.

Groom, Walter Alvin, co. agrl. agt., Littleton, Colo.

b. Monte Vista, Colo., Oct. 7, 1892; *s.* W. A. and Alice (John) G.; reared on farm; *m.* Hertha J. Folk, Aug. 18, 1916. B.S., Colo. Agr. Coll., 1915.

Groover, Benjamin Hill, asst. comnr. agr., State Capitol, Atlanta, Ga.

Bank cashier, 1900–17. Pres. Tattnall-Evans Co. Bankers' Assoc.; sec. Tattnall Co. Farm Bur. *b.* Arcola, Ga., Mar. 22, 1880; *s.* Samuel E. and Anna S. (Cone) G.; reared on farm; *m.* Mamie A. Smith, June 7, 1904; *c.* Mary, Anna. B.S., Mercer Univ., Macon, Ga., 1900; studied Univ. Chicago. Kappa Alpha.

Gross, Edward Robert, ext. specialist in agrl. engin., Miss. A.&M. Coll., Agricultural College, Miss.

Country sch. teach., 1902–3; grain farmer, Neb. 1903–6; princ. high-sch., Exeter, Neb., 1908–9; princ. public schs., Long Pine, Neb., 1909–11; instr. woodwork, Univ. Neb., 1911–3; chg. farm mech., Neb. Sch. Agr., Curtis, 1913–4; assoc. prof. chg. farm mech., Colo. Agr. Coll., 1914–8; present position, 1918—. *b.* Julian, Neb., Aug. 26, 1883; *s.* Chas. and Emily (Wagner) G.; reared on farm; *m.* Mrs. Frankie Glasscock Schneider, Apr. 3, 1915. B.Ed., Peru State Normal, Neb., 1913; B.S .Agr., Univ. Neb., 1913.

Gross, Howard H., farmer, pres. Universal Military Training League, First National Bank Bldg., Chicago, Ill.

Mem. Chicago Bd. Educ., 1897–1900. U. S. Del. to Inter. Good Roads Congress, Paris, 1908. Pres. Tariff Comn. League. Traveled in Australia, New Zealand, Sandwich Isls., W. Indies, Europe. *Auth.:* The Money Problem, 1896; Handbook on Mathematical Geography, 1882; Waterway Transportation, 1908; Brief on Tariff Commission, 1915; Brief on Universal Obligatory Military Training, 1916. *b.* Marathon, N. Y., Sept. 27, 1853; *s.* John C. and Caroline (Hyde) G.; reared on farm; *m.* Dell S. Condit, Apr. 11, 1878; *c.* Wilbur G., Howard H. Jr., Florence, Helen M.

Gross, Wilmer Emanuel, co. agrl. agt., Franklin, N. C.

Asst. farm manag., Penn. State Coll., 1910–1; agrl. agt., Southern Ry., 1912–4; farmer, Va., 1914–5; manag. live-stock farm, Tenn., 1915–6; creamery work, 1916–7; present position, 1917—. Sec. Va. Dairymen's Assoc. *b.* York Co., Pa., May 31, 1886; *s.* John W. and Mary (Eyster) G.; reared on farm; *m.* Leona Jeter Moorman, May 2, 1914. B.S.A., Penn. State Coll., 1909. Alpha Zeta.

Groves, Ernest Rutherford, prof. sociol., dean of Arts and Sci., N. H. A.&M. Coll., Durham, N. H.

Prof. psychology and philosophy, N. H. A.&M. Coll., 1903–7; instr. English, Dartmouth Coll., 1907–8; prof. sociol., N. H. A.&M. Coll., 1908—; dean of Arts and Sci., 1916—. *Auth.:* Moral Sanitation, 1916; Using the Resources of the Rural Church, 1917; Rural Problem of Today, 1918. *Ed.* dept. rural and community sociol., Rural Manhood. *b.* Saxonville, Mass., May 6, 1878; *s.* Henry H. and Hannah (Seward) G.; reared in town; *m.* Dorothy Doe, 1907 (d. 1916); *c.* Catherine, Ernestine Dorothy. B.D., Yale Sch. of Religion, 1901; A.B., Dartmouth Coll., 1903.

Grubbs, Norman S., co. agrl. agt., Court House, Pittsburg, Pa.

Farming in O., 3 summers; in Pa., 5 yrs.; Pittsburg Cut Flower Co., 1 summer; farming and Y. M. C. A. work, Burlington, N. J., 18 mos.; agt. Allegheny Co., Pa., 1914—. *b.* Bakerstown, Pa., June 11, 1888; *s.* James and Mary (Gregg) G.; reared on farm and in city; *m.* Dorothy Jane Grubbs. B.S., Penn. State Coll., 1913. Alpha Zeta.

Guilbert, Edgar J., ranchman, Smoky Hill Ranch, Wallace, Kans.

Mem. Kans. Legislature, 1909. Pres. Am. Galloway Breeders' Assoc., 1917–8; exec. bd., Kans. Live-Stock Assoc. *b.* S. Olive, O., Nov. 14, 1871; *s.* Walter D. and Mary L. (Jordan) G.; reared in city; *m.* Jennie M. Reed, Dec. 1896; *c.* Harold Reed, Edna Virginia.

Guilford, William Sumner, dir. agr., Calif. Farm Lands Co. Willows, Calif.

Pres. Glenn Co. Berkshire Breeders' Assoc.; pres. Western Berkshire Congress, 1916; mem. exec. com., Nat. Live-Stock Assoc. Live-stock ed., Wis. Agriculturist, 1902–5; western ed. Berkshire World. *Auth.:* Irrigator's Hand Book, 1909; (with Grubb) The Potato, 1911; Californian Hog Book, 1915. *b.* Storm Lake, Ia., Sept. 21, 1882; *s.* Emmet H. and Anna B. (Forbes) G.; reared on farm and in small town. Student Univ. Wis.

Gullickson, Rachel McEldowney, teach. dom. econ., La Crosse Co. Sch. Agr. and Dom. Econ., Onalaska, Wis.

Present position, 1913—; food dem., La Crosse Co., 1918. Organizer girls' sewing, canning clubs and the like. *b.* West Salem, Wis., Dec. 5, 1892; *d.* Wm. Francis and Eva (Pettingill) McEldowney; reared on farm; *m.* Francis Lynn Gullickson, Aug. 4, 1915. Grad. Stout Inst., 1912.

Gunn, Colin Donald, co. agrl. agt., Starke, Fla.

b. Greenmound, Fla., Nov. 16, 1892; *s.* Colin Campbell and Annie (Rawls) G.; reared on farm. B.S.A., Univ. Fla., 1916. Phi Kappa Phi.

Gunnels, Charles E., agrl. ext. serv. dir., Univ. Neb., Lincoln, Neb.

Instr. agron., Univ. Neb., 1915–6; co. agrl. agt., Seward Co., Neb., 1916–7; co. agt. leader, Univ. Neb., 1917–8; present position, 1918—. *b.* Crete, Neb., Sept. 6, 1888; *s.* Geo. W. and Agnes (Aller) G.; reared in town and on farm; *m.* Ruth G. Hogue, June 14, 1916. B.S.A., Univ. Neb., 1915. Gamma Sigma Delta.

Gunness, Christian I., prof. rural engin., Mass. Agr. Coll., Amherst, Mass.

Instr. mech. engin., N. D. Agr. Coll., 1907–9; asst. prof., 1910–2; supt. Tractioneering Sch., La Porte, Ind., 1912–4; present position, 1914—. *b.* Abercrombie, N. D., Jul. 23, 1882; *s.* Ingebrigt and Maren (Gunness) G.; reared on farm; *m.* Elizabeth Rice, Jul. 6, 1910; *c.* Robt. Chas. B.S., N. D. Agr. Coll., 1907.

Gurler, Henry Benjamin, dairy farmer, Macon, Miss.

Mercantile business, De Kalb, Ill., 1864–8; dairyman, 1868–82; proprietor creamery, 1882—. Instr. butter-making, Univ. Wis., 1891; Univ. Vt., 2 terms; Penn. State Coll., 3 terms. *Auth.:* American Dairying, 1894; The Farm Dairy.

Served in Civil War. *b.* Chesterfield, N. H., May 21, 1840; *s.* Benjamin and Harriet F. (Hopkins) G.; *m.* Selenia Rolfe, Mar. 27, 1867; 2d, Cora A. Dodge, Oct. 5, 1904.

Gussmann, Emma Josephine, editorial writer, 911 S. 47th St., Philadelphia, Pa.
Assoc. ed., household dept., The Farm Journal, Philadelphia. *b.* Philadelphia, Pa.; *d.* Chas. F. and Caroline (Fackler) G.; reared in city.

Gustafson, Axel Ferdinand, asst. prof. soil physics, Univ. Ill., Urbana, Ill.
Asst. soil physics, Univ. Ill., 1907–10; instr., 1910–1; assoc., 1911–5; asst. prof., 1915—. *Auth.:* (with Mosier) Soil Physics Laboratory Manual, 1912; (with Mosier) Soil Physics and Management, 1917. *b.* Joy, Ill., Nov. 24, 1880; *s.* G. A. and Augusta (Jern) G.; reared on farm; *m.* Zora Dean McUmber, June 30, 1914; *c.* Helen Lucile. B.S., Univ. Ill., 1907; M.S., 1912. Sigma Xi; Alpha Zeta (nat. pres., 1910–4).

Gustafson, Carl Henry, farmer, Mead, Neb.
Pres. Farmers' Educ. and Coop. State Union of Neb. Mem. Neb. Legislature, 1911, 1913; mem. Water Power Comn., 1911; chm. Farmers' War Council of Neb. Pres. Farmers' Union State Exchange; pres. Farmers' Union Live-Stock Comn. of Neb. *Ed.-in-chief,* Nebraska Union Farmer. *b.* Rockford, Ill., Apr. 1, 1869 ; *s.* Christopher and Hilda (Malstrom) G.; reared on farm; *m.* Anna M. Matson, May 20, 1893; *c.* Esther, F. M., Roy H., Reuben R., Nancy R. V., Ralph E. C.

Guthrie, Edward Sewall, prof. dairy ind., Cornell Univ., Ithaca, N. Y.
Instr. dairying, Ohio State Univ., 1905–8; instr. dairy ind., Cornell Univ., 1908–10; instr. and invest., 1910–3; prof., 1913—. Sec.-treas. O. Dairymen's Assoc., 1907–8. *Auth.:* The Book of Butter, 1918. *b.* Coin, Ia., Dec. 27, 1880; *s.* Wm. Adam and Isabel (Sewall) G.; reared on farm; *m.* Margaret Faye Watterson, June 20, 1907; *c.* Edward Watterson, Margaret Isabel, Glen Scott. B.S., Ia. State Coll., 1905; M.S.A., Cornell Univ., 1910; Ph.D., 1913.

H

Hacker, Alvin Leland, co. agrl. agt., Allentown, Pa.
b. Lincoln, Pa., Oct. 28, 1890; *s.* J. J. and Katie (Hagy) H.; reared on farm; *m.* Effie Klinefelter, Feb. 3, 1917. B.S., Penn. State Coll., 1916. Chi Phi; Phi Kappa Phi.

Hackleman, Jay Courtland, asst. prof. farm crops, Univ. Mo., Columbia, Mo.
Asst. agron., Univ. Mo., 1910–1; instr., 1911–3; asst. prof., 1913—. Sec.-treas. Mo. State Corn Growers' Assoc., 1916—. *b.* Carthage, Ind., June 24, 1888; *s.* C. M. and Hattie (Call) H.; reared on farm; *m.* Lorraine Gans, Jul. 24, 1912; *c.* Russell Edgar. B.S.A., Purdue Univ., 1910; A.M., Univ. Mo. 1912.

Hadley, Frederick Brown, prof. vet. sci., Univ. Wis., Madison, Wis.
Instr. vet. med., Wash. State Coll., 1907–8; asst. prof. anat. and surg., 1908–9; asst. prof. vet. anat., Ohio State Univ., 1909–10; asst. prof. vet. sci., Univ. Wis., 1910–1; assoc. prof, 1911–8; prof., 1918—. Mem. of official party Am. Vet. Med. Assoc. traveling in Europe, 1914. *Auth.:* The Horse in Health and Disease, 1915. *b.* Burlington, Vt., Jan. 31, 1880; *s.* Frederick and Lucia (Brown) H.; reared on farm; *m.* Jennie E. Potts, Nov. 3, 1917. D.V.M., Ohio State Univ., 1907. Sigma Xi.

Hadley, Philip Bardwell, prof. bact., R. I. State Coll., Kingston, R. I.
Chief div. an. breeding and path., R. I. Exp. Sta., 1908—; prof. bact., R. I. State Coll., 1912—. *b.* Shelburne Falls, Mass., Jan. 10, 1881; *s.* Edson P. and Elizabeth (Fairbanks) H.; reared in city; *m.* Ruth Barbara Canedy, May 16, 1908; *c.* Jarvis Francis, Barbara. Ph.B., Brown Univ., 1903; Ph.D., 1908. Delta Upsilon.

Haecker, Theophilus L., prof. emeritus dairy and an. husb., Univ. Minn., University Farm, St. Paul, Minn.
Instr. dairying, Univ. Minn., 1891–3; prof. dairy and an. husb., 1893–18; invest. an. nutr., 1907–18. Sec. Minn. Dairymen's Assoc. Del. to Dairy Congress, Budapest, 1909. Exec. clerk to governor of Wis., 1874–91. Served in Civil War. *Ed.,* dairy dept., Farm Stock and Home. *b.* Liverpool, O., May 4, 1846; *s.* Henry and Barbara (Drohman) H.; reared on farm; *m.* Marie

Brown, Mar., 1869; 2d, Fanny M. Villas, 1888; *c.* Archibald L., Elfreda, Mary, Barbara. Two yrs. at Univ. Wis. Sigma Xi; Alpha Zeta.

Hagan, Harold Raymond, asst. prof. zool. and ent. and assoc. ent. Exp. Sta., Utah Agr. Coll., Logan, Utah.

Instr. ent., Utah Agr. Coll., 1914–7; present position, 1917—. *b.* Chicago, Ill., May 20, 1886; *s.* Albert and Dora (Young) H.; reared in town; *m.* Blanche Young, Sept. 4, 1907; *c.* Harold R. Jr. B.S.A., Utah Agr. Coll., 1914; M.S., Harvard Univ., 1917. Gamma Sigma Delta; Pi Zeta Pi.

Hagans, Otto Charles, co. agrl. agt., Effingham, Kans.

Teach. agrl. sci., Atchinson Co. high-sch., Effingham, Kans., 1912–4; agt. Miami Co., Kans., 1914–8; agt. Atchinson Co., 1918—. Farm operator, 4 yrs. *b.* Lane Co., Kans., Jan. 28, 1888; *s.* C. F. and Julia A. (Cockerell) H.; reared on farm; *m.* Mary Jeanette Buck, Sept. 2, 1914; *c.* Chas. Dale, Jeannette Louise. B.S., Kans. State Agr. Coll., 1911.

Hagar, William Jackson, co. agrl. agt., Canajoharie, N. Y.

Instr. an. husb., Sch. Agr., Canton, N. Y., 1 yr.; instr. agr., Millbrook Memorial high-sch., 3 yrs.; agt. Montgomery Co., 1917—. Co. rep. N. Y. State Food Supply Comn.; co. rep. N. Y. State Food Comn. *b.* Plattsburgh, N. Y., Oct. 4, 1887; *s.* Luther and Alice Gertrude (Jackson) H.; reared on farm; *m.* Emily Muirhead Dowlen, Oct. 20, 1915; *c.* Richard Dowlen. Middlebury Coll., 1 yr.; Sch. Agr., Canton, N. Y., 2 yrs. Kappa Delta Rho.

Hagedorn, Frederick Arthur, sci. asst. in dairying, Dairy Div., U. S. Dept. Agr., Washington, D. C.

Instr. dairy manufacturers, Mich. Agr. Coll., 1916–8; present position, 1918—. *b.* Fremont, Mich., Apr. 8, 1891; *s.* Simon and Magdalena (Petensen) H.; reared in town; *m.* Blanch Harriet Grill, Jul. 11, 1916; *c.* Harriet Dorothy. B.S.A., Mich. Agr. Coll., 1916.

Hahner, Albert R., co. agrl. agt., Colville, Wash.

Asst. prof. vet. sci., Univ. Ida., 1913–7; agt. Stevens Co., Wash., 1917—. In U. S. Army, 1918—. *b.* Dillon, Mont., Feb. 28, 1889; *s.* Herman and Emilie (Bottenburg) H.; reared on farm. D.V.S., Wash. State Coll., 1913.

Haines, Harry Caum, co. agrl. agt., Somerville, N. J.

b. Mt. Ephraim, N. J., Aug. 2. 1885; *s.* Joseph M. and Martha A. (Caum) H.; reared in town; *m.* Dana M. Bower, June 22, 1912; *c.* Clement B., Harry C. Jr. Studied Bucknell Univ., 3 yrs.; short-course, Rutgers Coll. Delta Theta Upsilon.

Hale, Joseph Carroll, co. agrl. agt., Steamboat Springs, Colo.

b. Lane, Kans., Sept. 26, 1894; *s.* Joseph W. and Maria (McCreery) H.; reared on farm; *m.* Gladys C. Habaugh, Sept. 1, 1916; *c.* Stuart Owen. B.S., Colo. Agr. Coll., 1916. Sigma Rho Delta.

Hale, Philip Henry, ed. National Farmer and Stock Grower, 3550 Vista Ave., St. Louis, Mo.

Dairy farmer, Tex., 1880–90; fruit and stock farmer, Miss., 1900–10. *Auth.:* Book of Live Stock Champions, 1912; History of Agriculture by Dates, 1910; Directory of Live-Stock Breeders of U. S. and Canada, 1887; Agricultural Blue Book, 1910. *b.* London, England, May 24, 1850 (naturalized 1893); *s.* Henry and Mary Ann (Sanders) H.; reared in country; *m.* J. C. Strong Bartel, Feb., 1918.

Hale, Preston Orin, co. agrl. agt., Cottonwood Falls, Kans.

Student asst. feeding expts., Kans. State Agr. Coll., 1915–6. *b.* Saunemin, Ill., Mar. 5, 1889; *s.* Orin M. and Effie (Ragan) H.; reared on farm. B.S.A., Kans. State Agr. Coll., 1916. Alpha Zeta.

Hall, Frank Henry, ed. and librarian, vice-dir., N. Y. Agr. Exp. Sta., Geneva, N. Y.

Instr. math., Mich. Agr. Coll., 1888–90; Off. Exp. Stas., Washington, 1893–7; ed. dept. field crops, Exp. Sta. Record, 1895–7. *b.* Tecumseh, Mich., Jul. 22, 1866; *s.* Alfred Daniel and Engelina (Heesen) H.; reared on farm; *m.* May Evelyn Avery, Oct. 28, 1891; *c.* Elizabeth Mary, Dorothy Van Doren, Sydney Wyckoff, Ruth Marguerite. B.S., Mich. Agr. Coll., 1888.

Hall, John Robert, co. agrl. agt., Harrisonville, Mo.

Farmer, La Monte, Mo., 4 yrs. Sec. Mo. Farmers' Exchange, 1914–7. *b.* Kearney, Mo., June 22, 1892; *s.* J. Ed. and Allie (Pence) H.; reared on farm; *m.* Mary B. Hill, June 22, 1918. B.S.A., Univ. Mo., 1917.

Hall, Lawrence K., specialist work with rural boys, Inter. Com. Y. M. C. A., 347 Madison Ave., New York City.

Instr. high-sch., Norton, Kans., 1910–1; supt. schs., Cheney, 1911–2; specialist on work among high-sch. boys, State Com. Y. M. C. A., Kans., 1912–7; present position, 1917—. Dir. Assoc. of Boys' Work Secs. of N. Am. *b.* Riley, Kans., Jul. 27, 1886; *s.* James W. and Laura Belle (Knipe) H.; reared on farm; *m.* Margaret E. Brown, June 26, 1912; *c.* Wm. McBrown, James Worthington. B.S., Baker Univ., 1910.

Hall, Otis E., state leader boys' and girls' clubs, Kans. State Agr. Coll., Manhattan, Kans.

Joint auth.: Better Rural Schools. *b.* Darlington, Ill., Dec. 20, 1879; *s.* James Quincy and Amy (Cox) H.; reared on farm; *m.* Mary Demoret, June 25, 1908; *c.* Lois Marie, Mary Louise, Naomi. A.B., Wabash Coll., 1907.

Halligan, Charles Parker, assoc. prof. hort. and lands. gard., Mich. Agr. Coll., E. Lansing Mich.

Student asst. Arnold Arboretum, summer 1903; hort., Nat. Farm Sch., Pa., 1904–6; instr. lands. gard., Mass. Agr. Coll., 1906–7; instr. pom. and lands., Mich. Agr. Coll., 1907–8; asst. prof. hort., 1908–13; present position, 1913—. *b.* Boston, Mass., Jul. 10, 1881; *s.* John and Margaret (McCarthy) H.; reared in suburbs; *m.* Lillian I. Proulx, Sept. 4, 1907. B.S., Mass. Agr. Coll., 1903. Kappa Sigma.

Hallman, Elam Tandy, assoc. prof. an. path. and vet. Exp. Sta., Mich. Agr. Coll., E. Lansing, Mich.

Instr. histology, bact., path., Ala. Poly. Inst., 1910–2; instr. bact. and research asst. bact., Mich. Agr. Coll., 1912–4; asst. prof., 1914–5; assoc. prof. an. path., 1915—; vet. to Exp. Sta., 1918—; an. path to Mich. State Livestock Comn., 1915—. *b.* Oxford, Ala., Mar. 14, 1884; *s.* W. W. and Julia A. (Morris) H.; reared on farm; *m.* Alma N. Cook, June 6, 1912; *c.* Mary Louise, Alma Kathryn. D.V.M., Ala. Poly. Inst., 1910; grad. student Johns Hopkins Univ., 1910. Alpha Psi.

Halm, Helen Hay, asst. prof. educ. and dir. supervised teach. in home econ., Kans. State Agr. Coll., Manhattan, Kans.

Dir. home econ. dept., Corsicana, Tex., high-sch., 1908–10; Southwest Tex. State Normal Sch., San Marcos, 1910–3; dir. two-yr. home econ. dept., Ia. State Coll., 1913–4; present position, 1915—; teach. home econ., Geo. Peabody Coll. for Teachers, Jan.–Sept., 1917 (on leave). *b.* Topeka, Kans., May 21, 1882; *d.* Frank D. and May (Ernul) H.; reared in city. B.S., Kans. State Agr. Coll., 1908; Columbia Univ., 1915. Pi Beta Phi; Omicron Nu; Phi Kappa Phi.

Halpin, James G., prof. poultry husb., Univ. Wis., Madison, Wis.

Instr. poultry husb., R. I. State Coll., 1905–6; Mich. Agr. Coll., 1906–9; Univ. Wis., 1909—. Sec. Wis. Poultry Assoc. *b.* Odessa, N. Y., Oct. 18, 1882; *s.* John LaFayette and Sarah (Lattin) H.; reared on farm; *m.* Ione Blake; *c.* John Leon, Robt. Blake. B.S.A., Cornell Univ., 1905.

Hamilton, John, agrst., State College, Pa.

Prof. agr., Penn. State Coll., 1871–80; commandent of cadets, 1869–73; business manag., 1874–86; treas., 1874–1911; trustee. Deputy sec. agr., Pa., 1895–9; sec. agr., 1899–1903. Farmers' inst. specialist, U. S. Dept. Agr. 1903–14. Mem. Pa. State Bd. Agr. Sec. Pa. State Agrl. Soc.; sec. Am. Assoc. Farmers' Inst. Workers. Sergt.–Major, 1st Pa. Cavalry, 1861–4. *b.* Juniata Co., Pa., Feb. 19, 1843; *s*, Hugh and Sarah Gettys (McDowell) H.; reared on farm; *m.* Elizabeth McFarland Thompson, Oct. 27, 1875; *c.* Mary, John, Anne. B. S., Penn. State Coll. 1871; M. A. S., 1872.

Hamlin, Herbert M., co. agrl. agt., LeSueur Center, Minn.

Agrst., high-sch., LeSueur, 1916–8. *b.* Brookings, S. D., Mar. 23, 1894; *s.* Samuel L. amd Mary M. (McNee) H.; reared on farm; *m.* Alice R. Schield, June 27, 1917. B.S.A., Ia. State Coll., 1916. Sigma Delta Chi; Alpha Zeta.

Hammond, Benjamin, manufacturer and merchant, Beacon, N. Y.

Amateur gardener. Sec. Am. Rose Soc., 12 yrs., pres. 2 yrs.; chm. com. on sch. gardens, Soc. Am. Florists and Ornamental Hort. Pres. Bd. Educ., Beacon, N. Y.; vice-pres. Mechanics Savings Bank of Beacon. *Ed.*, Mount Kisco Weekly. *b.* Kidderminster, England, Jul. 12, 1849 (naturalized as minor); *s.* Benjamin and Mary (Twemlow) H.; reared in suburbs; *m.* Isabel Monilaws, Jul. 1875; 2d, Laura Anthony, 1898; *c.* Marion Isabel, Grace Twemlow, Elsie.

Hancock, Newman Isaih, co. agrl. agt., Benton, Tenn.

b. Fayetteville, Tenn., Feb. 15, 1892; *s.* N. F. and Mattie (Newman) H.; reared on farm. B.S.A., Univ. Tenn., 1917.

Hand, William Flowers, prof. chem., Miss. A. & M. Coll., Agricultural College, Miss.

Asst. chem., Miss. A.&M. Coll., 1893–8; prof. and state chem., 1898—. Assoc. mem. Naval Consulting Bd. of U. S. Pres. S. Cent. State Assoc. of Food Control Officials, 1918–9. *b.* Shubuta, Miss., Dec. 1, 1873; *s.* Albert P. and Florence (Flowers) H.; reared in small town; *m.* Evie Nash, Sept. 7, 1898; *c.* Wiley Nash. B.S., Miss. A.&M. Coll., 1893; M.S., 1895; Ph.D., Columbia Univ., 1903. Sigma Alpha Epsilon.

Handschin, Walter Frederick, asst. prof. farm manag., Univ. Ill., Urbana, Ill.

Princ. County Sch. Agr., Marinette, Wis., 1907–8; instr. and asst. prof. an. husb., Univ. Minn., 1908–11; asst. and assoc. an. husb., Univ. Ill., 1911–5; asst. prof. farm manag., 1915—; vice-dir. agrl. ext., 1914—. Farm manag., 1905–7. *b.* Calumetville, Wis., Jan. 10, 1880; *s.* Jacob and Paulina (Bertschi) H.; reared on farm; *m.* Edith Bunce Knott, Aug. 21, 1909; *c.* Robt., Margaret. B.S., Univ. Ill., 1913.

Hanger, Wallace Edwin, prof. farm crops, Ohio State Univ., Columbus, O.

Asst. agron., Md. Exp. Sta., 1911–5; present position, 1915—. *b.* Preble Co., O., June 28, 1882; *s.* Geo. W. and Catharine (Judy) H.; reared on farm; *m.* Mary Louise Sherwood, June 5, 1917; *c.* Wallace Sherwood. B.S.A., Ohio State Univ., 1911. Delta Theta Sigma.

Hankinson, John Henry, farmer, Glen Moore, N. J.

Farm operator, 1903–13; agrl. agt., Mercer Co., N. J., 1912–6; state leader co. agts., Rutgers Coll., 1916–8. Pres. E. B. Voorhees Agrl. Soc., 1908–11; trustee Farmers' Coop. Assoc. of Mercer Co., 1912–8. *b.* New York City, Jul. 20, 1882; *s.* John H. and Mary Frances (Hunter) H.; reared in city and on farm; *m.* Marjorie Douglas Frost, Feb. 27, 1912; *c.* Margaret, John. B.A., Princeton Univ., 1903; grad. short-course, Rutgers Coll., 1908.

[Hansen, N. E., p. 311.

Harbold, Peter Monroe, princ. State Normal Sch., Millersville, Pa.

Teach. hist. and pedagogy, Millersville State Normal, 1899–1902; supt. training sch., 1905–11; supt. city schs., Lancaster, Pa., 1911–2; present position, 1912—. Special attention to rural educ. *Ed.*, Normal Journal. *b.* Allen, Pa., Nov. 17, 1873; *s.* Peter and Leah (Burgard) H.; reared on farm; *m.* Helen Keiser, Jul. 24, 1907; *c.* Elizabeth Keiser, Mary Leah. Grad. Millersville State Normal, 1898; Ph.B., Franklin and Marshall Coll., 1904; A.M., Harvard Univ., 1905; Sc.D. (hon.), Franklin and Marshall Coll., 1914. Phi Beta Kappa.

Hardin, DeWitt Talmage, distr. agrl. agt., Court House, Chattanooga, Tenn.

Asst. an. husb., Univ. Tenn., 1912–4; agt. Hamilton Co., Tenn., 1914; distr. agt., E. Tenn., 1915—. Farm operator. *b.* Lowndesville, S. C., Oct. 5, 1890; *s.* Wm. Henry and Leila (Cann) H.; reared on farm; *m.* Mary Edna Timmerman, Apr. 24, 1918. B.S., Clemson Agr. Coll., 1912; M.S.A., Univ. Tenn., 1914. Kappa Sigma; Phi Kappa Phi; Alpha Zeta.

Harding, Harry Alexis, prof. dairy bact., Univ. Ill., Urbana, Ill.

Bact., N. Y. Agr. Exp. Sta., Geneva, 1899–1913; present position, 1913—. Comnr. Health, Geneva, N. Y. Traveled in W. Europe. *b.* Oconomowoc, Wis., Nov. 28, 1871; *s.* Joseph and Elizabeth (Dean) H.; reared on farm; *m.* Esther Gordon, Aug. 31, 1899; *c.* H. Gordon, Esther, Helen, Ruth. B.S., Univ. Wis., 1896; M.S., 1898; Ph.D., Cornell Univ., 1910. Sigma Xi.

Hare, Franklin Creighton, prof. poultry husb., Clemson Agr. Coll., Clemson College, S. C.

Chief poultry div., Dept. Agr., Ottawa, Canada, 1898–1904; junior an. husb., U. S. Dept. Agr., 1913–4; prof. poultry husb. and ext. husb., Clemson Agr. Coll., 1914—. Vice-pres. Am. White King Assoc.; sec-treas. S. C. Poultry Breeders' Assoc.; vice-pres. S. C. Pigeon Breeders' Assoc. *Auth.:* Milk Feeding for Packing Houses, 1904; Secrets of Milk Feeding Chickens, 1912. *Assoc. ed.*, Reliable Poultry Journal, 1904–8; ed., The Standard and Poultry World, 1908–12. *b.* Toronto, Ont., Nov. 6, 1875 (naturalized 1911); *s.* John James and Katherine Isabella (MacDowell) H.; reared on farm; *m.* Violet Maude Wilson, Jan. 11, 1903; *c.* Kathleen, Archibald Creighton. Student Toronto Univ.

Haring, Clarence Melvin, prof. vet. sci., Univ. Calif., Berkeley, Calif.

Asst. vet. anat., Cornell Univ., 1903–4; instr. vet. sci. and bact., Univ. Calif., 1904–6; asst. prof., 1906–10; vet. and bact., Exp. Sta., 1904–13; prof. vet. sci., 1914—. Prof. vet. surg., San Francisco Vet. Coll., 1907–10; dir. Calif. anti-hog cholera serum lab., 1911–5. Sec. Am. Vet. Med. Assoc., 1915–6; vice-pres. U. S. Live-Stock Sanitary Assoc., 1914. Del. from Calif. to 6th Inter. Congress on Tuberculosis, Washington, 1908. 1st Lieut., Vet. Corps, Nat. Army, 1918—. *b.* Freeville, N. Y., June 1, 1878; *s.* Purley Work and Ellen (Ainsworth) H.; reared in small village; *m.* Grace Moody, Aug. 22, 1908. D.V.M., Cornell Univ., 1904; studied in Berlin and Budapest. Sigma Xi; Alpha Zeta.

Harlan, Harry V., agron. in chg. barley invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Traveled in Orient and S. America. *b.* London Mills, Ill., Feb. 19, 1882; *s.* Plato and Elizabeth (Philippi) H.; reared on farm; *m.* Augusta Griffing, Nov. 15, 1905; *c.* Wilbur Vaughn, Jack Rodney. B.S.A., Kans. State Agr. Coll., 1904; M.S.A., 1909; Sc.D., Univ. Minn., 1914.

Harlan, Rex E., co. agrl. agt., Elbow Lake, Minn.

Farmer, Ia., 6 yrs.; Wash., 1 yr. Instr. agr., high-sch., McIntosh, Minn., 1917–8. *b.* Oakland, Ia., Apr. 7, 1891; *s.* Alva E and Jessie F. H.; reared in country. B.S.A., Univ. Minn., 1917.

Harned, Robey Wentworth, prof. zool. and ent. and state ent., Miss. A.&M. Coll., Agricultural College, Miss.

Asst. biol., Miss. A.&M. Coll., 1906–8; acting prof. zool. and ent., 1908–10; prof., 1910—. Sec. State Plant Bd. of Miss. *b.* Charles Co., Md., Jul. 16, 1884; *s.* Edward Nathan and Helen M. (Porter) H.; reared in town and country; *m.* Edna Johnson, Oct. 24, 1911; *c.* Hilda, Edward Johnson. B.S.A., Ohio State Univ., 1906.

Harper, Jospeh N., dir. farm serv. bur., Southern Fertilizer Assoc., 1106 Peachtree Rd., Atlanta, Ga.

Agron., Ky. Exp. Sta., 1898–1905; dir. S. C. Exp. Sta., 1905–17; dean dept. agr., S. C. A.&M. Coll., 1912–7; present position, 1917—. Studied agrl. conditions in Ireland and England. *b.* Winston Co., Miss., Mar. 11, 1874; *s.* B. A. and Sarah (Yeager) H.; reared on farm; *m.* Susan Sparks, Sept., 1898; *c.* Lucy Elizabeth. B.S., Miss. A.&M. Coll., 1895; M.S.A., Univ. Ky., 1906.

Harper, Merritt Wesley, prof. an. husb., Cornell Univ., Ithaca, N. Y.

Asst. an. husb., Univ. Mo., 1902–5; farm manag., 1903–5; asst. an. husb., Cornell Univ., 1905–6; instr., 1906–7; asst. prof., 1907–12; prof., 1912—. *Auth.:* Manual of Farm Animals, 1911; Training and Breaking of Horses, 1912; Animal Husbandry for Schools, 1913; Management and Breeding of Horses, 1913; Breeding Farm Animals, 1914. *b.* Grove City, O., Oct. 24, 1877; *s.* James and Elizabeth A. (Seeds) H.; reared on farm; *m.* Elizabeth M. Tanton, Jul. 29, 1909; *c.* James T., John T. B.S., Ohio State Univ., 1901; M.S., Univ. Ill., 1902.

Harrell, Alfred L. Jr., co. agrl. agt., Haynesville, Ala.

Farm operator, 2 yrs. *b.* LaFayette, Ala., Aug. 21, 1895; *s.* Alfred L. and Emma H.; reared on farm. B.S., Ala. Poly. Inst., 1915. Phi Kappa Phi.

Harrington, Frank M., assoc. prof. pom., Ia. State Coll., Ames, Ia.

b. Hutchinson, Minn., Apr. 29, 1888; *s.* L. P. and May (Groshong) H.; reared

in town. B.S.A., Ore. Agr. Coll., 1913. Lambda Tau Alpha.

Harris, Benjamin Franklin, pioneer in banker-farmer movement, 1st Nat. Bank, Champaign, Ill.

Founder and ed., Banker-Farmer, 3 yrs. Former chm. Agrl. Comn., Am. Bankers' Assoc.; pres. Ill. Bankers' Assoc. Mem. Council, Am. Assoc. for Agrl. Legislation; vice-chm. Ill. State Council Defense. Farmer and writer and speaker on agrl. problems. *b.* Champaign Co., Ill., Sept. 30, 1868; *s.* Henry Hickman and Melissa (Megrue) H.; reared in town; *m.* May Melish, Dec. 5, 1895; *c.* Henry H., Wm. Melish, Benjamin F. III, Elizabeth. LL.B., Columbia Univ., 1892.

Harris, Franklin Stewart, dir. Exp. Sta. and prof. agron., Utah Agr. Coll., Logan, Utah.

Instr. sci., Juarez Stake Acad., 1904–5; asst. agrl. chem., Brigham Young Univ., 1906–7; asst. chem., Utah Exp. Sta., 1907–8; asst. soil tech., Cornell Univ., 1909–10; instr. soil tech., 1910–1; prof. agron., Utah Agr. Coll. and agron. Exp. Sta., 1911—; dir. Sch. Agrl. Engin., 1912—. Del. Inter. Dry-Farming Congress; Inter. Irrig. Congress; Universal Esperanto Assoc., Geneva, Switzerland. Pres. Cornell sect. Am. Soc. Agron.; chm. sect. agrl. engin., Inter. Dry-Farming Congress; sec. Utah Dry-Farmers' Assoc. Fellow and pres., Utah Acad. Sci. *Auth.:* Man in Relation to His Work, 1913; The Vocations of Man, 1914; Principles of Agronomy, 1915; The Young Man and His Vocation, 1916; The Sugar-Beet in America, 1918. *b.* Benjamin, Utah, Aug. 29, 1884; *s.* Dennison Emer and Eunice (Stewart) H.; reared in town; *m.* Estella Spilsbury, June 18, 1908; *c.* Arlene, Franklin S. Jr., Chauncy Dennison, Helen. B.S., Brigham Young Univ., 1907; Ph.D., Cornell Univ., 1911. Sigma Xi; Delta Nu; Gamma Sigma Delta.

Harris, Marion L., co. agrl. agt., Randolph, Utah.

General farming, 10 yrs. *b.* Colonia Juarez, Chuhuahua, Mex., Dec. 28, 1892; *s.* D. E. and Eunice (Stewart) H.; reared on farm. A.B., Brigham Young Univ., 1917.

Harrison, Arthur Kenyon, asst. prof. lands. gard., Mass. Agr. Coll., Amherst, Mass.

Instr. lands. gard., Mass. Agr. Coll., 1911–3; asst. prof., 1913—. *b.* Lebanon Springs, N. Y., May 25, 1872; *s.* Wm. H. and Marietta (Kenyon) H.; reared on farm; *m.* Gertrude Chandler Harrison, Aug. 18, 1901.

Harrison, Erbie Lee, pres. Ky. div. Farmers' Union, Lexington, Ky.

Instr., Univ. Ky., 1909–10. Manag. and sec.-treas. Assoc. Cooperators of Ky.; mem. Fed. Bd. of Farm Organizations. *Ed.* and manag., Ky. Union Farmer. *b.* Glasgow, Ky., Apr. 30, 1883; *s.* Flem and Mary (Harlow) H.; reared on farm; *m.* Luella M. Scovill, Sept. 13, 1916; *c.* Ruth Elizabeth, Helen Louise. A.B., Univ. Ky., 1909; student Univ. Wis., 1913–5; M.A., Univ. Mo., 1916. Alpha Zeta; Phi Gamma Delta.

Harrison, Fairfax, railway pres., Belvoir, Va.

Pres. Southern Ry. Co. and other corporations since 1913. Farmer. Pres. Va. State Fair Assoc., 1916—. *Ed.,* Roman Farm Management, 1913. *b.* N. Y., Mar. 13, 1869; *s.* Burton and Constance (Cary) H.; *m.* Hetty Cary, June 6, 1894. B.A., Yale Univ., 1890; M.A., Columbia Univ., 1891; admitted to N. Y. Bar, 1892.

Harrison, Francis Charles, princ. MacDonald Coll. and dean of faculty of agr., McGill Univ., Macdonald College, Que.

Prof. bact., Ont. Agr. Coll., 1896; present position, 1909—. Fellow Royal Soc. of Canada. Lieut-Col. Canadian Militia; asst. Adj.-Gen., Artillery Camp, Pelewawa, 1916–8. Rep. Canada in Inter. Dairy Conference, Budapest, 1910. Part ed., Microbiology; collaborating ed., La Revue Generale du Lait, Journal of Bacteriology. *b.* England, 1871; *s.* F. Sladen H.; *m.* Margaret R. Mills; *c.* 2 sons, 3 daughters. B.S.A., Toronto Univ., 1892; B.Sc., McGill Univ., 1906; studied at Cambridge Univ., Univ. Berne, Switzerland, Univ. Copenhagen, Denmark, Univ. Halle, Germany.

Harrison, Richard DeArmond Jr., co. agrl. agt., Bay City, Mich.

Farmer, Tipton, Mich., 1903–7; Ogden, 1907–9; supt. farms, U. S. Gypsum Co., Chicago, 1909–13; farmer, Princeton, Ill., 1913–5; supt. W. D. Young stock farm, Bay City, Mich., 1915–7. *b.* Prince-

ton, Ill., May 28, 1883; *s.* Richard D. and Ella (Warren) H.; reared on farm; *m.* Gladys O. Fisher, Oct. 15, 1910; *c.* Richard D., Carolyn F. Special student, Univ. Ill.

Harrison, Thomas James, prof. field husb., Man. Agr. Coll., Winnipeg, Man.

Asst. prof. field husb., Man. Agr. Coll., 1911–3; supt. Dominion Expl. Farm, Indian Head, Sask., 1913–5; present position, 1915—. Pres. Man. Seed Growers' Assoc.; vice-pres. Inter. Farm Congress. Mem. Provincial Food Resources Com. Sec. Dem. Farm Bd. *b.* Carman, Man., Apr. 15, 1885; *s.* Wm. and Margaret (MacCullough) H.; reared on farm; *m.* Ethel Mary Playfair, Sept. 4, 1912; *c.* Archibald Wm., James Allen. B.S.A., Man. Agr. Coll., 1911.

Hart, Edwin B., prof. agrl. chem., Univ. Wis., Madison, Wis.

Asst. chem., N. Y. Agr. Exp. Sta., Geneva, 1897–1902; assoc. chem., 1902–6; present position, 1906—. Fellow A. A. A. S. *Auth.:* General Agricultural Chemistry, 1910; Chemistry and Its Relation to Daily Life, 1913. *b.* Sandusky, O., Dec. 25, 1874; *s.* Wm. and Mary (Hess) H.; reared on farm; *m.* Annie De Mille, 1903; *c.* Margaret V. B.S., Univ. Mich., 1897; studied Univ. Heidelberg and Marburg, 1900–1.

Hart, Lewis Raymond, teach. agr., Hammondsport, N. Y.

Asst. teach. agr., high-sch., Perry, N. Y., 1916; teach. agr., high-sch., Hammondsport, 1916—. *b.* Ithaca, N. Y., May 27, 1893; *s.* Russell J. and Hattie (English) H.; reared on farm. B.S., Cornell Univ., 1916.

Hart, William R., prof. agrl. educ., Mass. Agr. Coll., Amherst, Mass.

Prof. psychology and educ., State Normal Sch., Peru, Neb., 1901–7; present position, 1907—. Educ. adv., Mass. State Bd. Agr. Special attention to boys' and girls' clubs. *Assoc. ed.,* The Rural Educator, *b.* Green Co., Pa., Mar. 31, 1853; *s.* Jacob and Xaveria (Ross) H.; reared on farm; *m.* Mary E. McCray, Aug. 14, 1884. L.B., Ia. State Law Sch., 1880; A.B., Univ. Neb., 1896; A.M., 1900.

Hartenbower, Andrew Cleveland, supt. insts. and ext. schs., Kans. State Agr. Coll., Manhattan, Kans.

Asst. agr., N. Mex. A.&M. Coll., 1906–7; prof. agr., Escuela Nacional de Agricultura y Veterinaria, Lima, Peru, 1907–9; asst. prof. agron., Okla. A.&M. Coll., 1910–3; princ. short-courses, 1913–4; dir. Guam Exp. Sta., 1914–7; present position, 1917—. Traveled W. Indies, S. and Cent. America, Mexico, Philippines, China, Japan. *b.* Douglass, Kans., Dec. 6, 1885; *s.* A. J. and Katie Ann (McCarthy) H.; reared on farm; *m.* Eathel Rebecca Fleming, Dec. 10, 1907. B.S., Okla. A.&M. Coll., 1915.

Harter, Leonard Lee, plant path., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Sci. asst., U. S. Dept. Agr., 1903–5; asst. physiologist, 1906–8; asst. path., 1909–11; path., 1912—. *b.* Moulton, Ia., Feb. 2, 1875; *s.* Aaron and Elizabeth (Replogle) H.; reared on farm; *m.* Nora Monterey Davis, Sept. 28, 1907; *c.* Helen S., Doris E., Stuart Davis. A.B., Univ. Neb., 1903; A.M., 1906; Ph.D., George Washington Univ., 1917.

Hartley, Charles Pinckney, chg. invests. in corn improvement, Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Teach., Ida., 1892–7; asst. hort. and instr. math., Kans. State Agr. Coll., 1897–9; present position, 1899—. Fellow A. A. A. S. *Auth.:* Injurious Effects of Premature Pollination, 1902; Broom Corn, 1903; Corn Growing, 1904; Production of Seed Corn, 1905; Harvesting and Storing Corn, 1907; Cross Breeding Corn, 1911; Popcorn, 1913. *b.* Ripley Co., Ind., Jul. 7, 1870; *s.* Wm. Lynn and Lucy Jane (Vines) H.; *m.* Anna Gano Brigham, Jul. 25, 1905. B.Sc., Kans. State Agr. Coll., 1892; M.Sc., 1899.

Hartman, Henry, ext. asst. prof. hort., Ia. State Coll., Ames, Ia.

b. Marion, Kans , Dec 11, 1888; *s.* H. and Leontine (Stillman) H.; reared on farm. B.S., Wash. State Coll., 1917. Gamma Sigma Delta; Delta Sigma Rho; Alpha Zeta.

Hartwell, Burt Laws, dir. agron. and chem. and prof. agrl. chem., R. I. State Coll., Kingston, R. I.

Asst. chem., Mass. Exp. Sta., 1889–91;

1st asst. chem., R. I. Exp. Sta., 1891–1903; assoc. chem., 1903–7; chem., 1907—; agron., 1913—; dir., 1912—; prof. agrl. chem., R. I. State Coll., 1908—. Fellow A. A. A. S. *b.* Littleton, Mass., Dec. 18, 1865; *s.* Chas. P. and Lucinda (Laws) H.; reared on farm; *m.* May Louise Smith, Sept. 9, 1891; *c.* Gladys. B.S., Mass. Agr. Coll., 1889; M.S., 1901; B.S., Boston Univ., 1889; Ph.D., Univ. Penn., 1903. Sigma Xi; Phi Kappa Phi.

Harvey, Marie Turner, teach. and lect. on rural educ., and founder The New Porter Rural Sch., Kirksville, Mo.

Teach. rural sch., Pontiac, Kans., 1885–7; primary teach., Old Orchard, Mo., 1889–91; supt. public schs., Clayton, 1891–1902; critic teach., State Normal Sch., Kirksville, 1907–8; inst. lect. and teach. Model Rural Sch., State Normal Sch., 1910–2; present position, 1912—. Special collaborator in rural educ., U. S. Bur. Educ.; chm. Com. on Rural Schs., Nat. Educ. Assoc.; mem. adv. bd., Mo. Home-Makers' Conference; mem. state exec. bd., Mo. Parent-Teachers' Assoc. *b.* Port Washington, Wis., May 13, 1869; reared on farm; *d.* Franklin and Anna Marie (Zimpelman) Turner; *m.* Clay Harvey, 1902.

Harvey, Thurlow Weed, asst. state leader co. agts., Purdue Univ., LaFayette, Ind.

b. Fairmount, Ind., Aug. 12, 1888; *s.* John W. and Elizabeth (Price) H.; reared on farm; *m.* Helen Louise Arnold, Aug. 19, 1913; *c.* Thurlow Weed Jr. B.S.A., Purdue Univ., 1914. Phi Kappa Sigma; Sigma Delta Chi; Alpha Zeta.

Haseman, Leonard, assoc. prof. ent., and ent. Exp. Sta., Univ. Mo., Columbia, Mo.

Asst. ent., Univ. Fla., 1905–6; asst., Univ. Mo., 1906–8; asst., Cornell Univ., 1908–10; instr. ent., Univ. Mo., 1910–2; asst. prof., 1912–6; assoc. prof., 1916—Chief. nursery insp., Mo., 1913—. *b.* Linton, Ind., Mar. 26, 1884; *s.* J. D. and Elizabeth C. (Shultze) H.; reared on farm; *m.* Elosia B. Fish, 1910; *c.* Joseph F., Leonard L. A.B., Univ. Ind., 1905; A.M., 1907; Ph.D., Cornell Univ., 1910. Sigma Xi; Gamma Sigma Delta; Gamma Alpha.

Haskell, Earl S., asst. agrst., Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.

Agrl. insp., Bur. Agr., Philippine Isls., 1909–12; chg. Baguia Exp. Sta., 1909–11; present position, 1913—. Traveled Japan, 1911, Europe, 1912. *b.* Des Moines, Ia., Oct. 5, 1886; *s.* Orville C. and Jane L. (Winslow) H.; reared on farm; *m.* Mabel Sanborn, Mar. 13, 1917; *c.* Ruth Sanborn. B.S.A., Ia. State Coll., 1908; M.S.A., 1909. Delta Sigma Rho.

Haskell, Royal Joyslin, plant path., Bur. Plant Ind., U.S. Dept. Agr., Washington, D. C.

b. Rochester, Mass., Jan. 27, 1890; *s.* Geo. B. and Annie E. (Joyslin) H.; reared on farm; *m.* Myrta M. Brown, May 29, 1916. B.S., Dartmouth Coll., 1912; Ph.D., Cornell Univ., 1917. Sigma Xi.

Haskell, Sidney Burritt, business manag. Soil Improvement Com., Nat. Fertilizer Assoc., 1428 Munsey Bldg., Baltimore, Md.

Asst. agron., Hatch Exp. Sta., 1904–5; instr. Mass. Agr. Coll., 1905–10; asst. prof., 1910–2; assoc. prof., 1912–5; prof., 1915–6; present position, 1916—. *b.* Fargo, N. D., May 24, 1881; *s.* E. B. and A. E. (Gould) H.; reared on farm and in city; *m.* Florence L. Dacy, Dec. 25, 1908; *c.* Nelson B., Florence W. B.S., Mass. Agr. Coll., 1904. Alpha Sigma Phi.

Haskins, Henri Darwin, chg. fert. and soil lab., Mass. Exp. Sta., Amherst, Mass.

Asst. chem., Mass. Exp. Sta., 1897–1907; present position, 1907—. *b.* Amherst, Mass., Dec. 27, 1870; *s.* Sylvester Henry and Elvira (Grey) H.; reared on farm; *m.* Fannie E. Graves, Oct. 10, 1895; *c.* Gerald Everard. B.Sc., Mass. Agr. Coll., 1890.

Hastings, Edwin George, prof. agrl. bact., Univ. Wis., Madison, Wis.

Asst. agrl. bact., Univ. Wis., 1899–1902; instr., 1902–5; asst. prof., 1905–9; assoc. prof., 1909–13; prof., 1913—. Fellow A. A. A. S. Mem. Wis. Live-Stock Sanitary Bd. *Auth.:* (with Russell) Outlines of Dairy Bacteriology, 1914; (with Russell) Agricultural Bacteriology, 1909; (with Russell) Experimental Dairy Bacteriology, 1909. Contributor to Microbiology. *b.* Austinburg, O., Aug. 11, 1872;

s. O. P. and Susan (Rose) H.; reared on farm; *m.* Elva J. Waters, Sept. 16, 1902. B.S., Ohio State Univ., 1898; M.S., Univ. Wis., 1899. Sigma Xi; Sigma Alpha Epsilon.

Hastings, Harry George, seedsman, Decatur, Ga.

Seedsman in Fla., 1889–99; Ga., 1899—; pres. H. G. Hastings Co., seedsmen; pres. and organizer, Hastings Farm Co. Vice-pres. Ga. Agrl. Soc.; ex-sec. Fla. State Hort. Soc.; mem. agrl. com., U. S. Chamber of Commerce; pres. Ga. State Chamber of Commerce; pres. Southwestern Fair Assoc. of Atlanta. Vice-pres. Ruralist Press, Inc.; dir. Southern Ruralist Co. *b.* Springfield, O., Mar. 8, 1869; *s.* Geo. W. and Candace L. (White) H.; *m.* Pearl M. Freeborn, Dec. 25, 1891; *c.* Wm. Raymond, Harry Stanley, Donald Madison. Student Oberlin Coll., 1884–5.

Hatch, Frederic Lewis, farmer and lect., Spring Grove, Ill.

Trustee Univ. Ill., 12 yrs. Traveled in Cuba and Mexico. *Auth.:* Hundreth Man in Agriculture, 1879. *b.* Spring Grove, Ill., Nov. 1, 1848; *s.* Lewis and Maud Ana (Cole) H.; reared ou farm; *m.* Ethelyn Baker, Dec. 21, 1906. A.M., Univ. Ill., 1873; hon. degree, Univ. Wis., 1918.

Hatch, Kirk Lester, prof. agrl. educ., Univ. Wis., Madison, Wis.

Princ. high-schs., Sextonville, Black Earth, Waterloo, Wis., 1896–1907; princ. Co. Sch. of Agr., Winneconne, Wis., 1907–8; present position, 1909—. *Auth.:* Elementary Agriculture, 1907; Profitable Dairying, 1908; High-school Agriculture, 1913. *Ed.*, American Agriculture Series. *b.* Loyd, Wis., June 27, 1871; *s.* L. M. and Margaret (Rhinehardt) H.; reared on farm; *m.* Florence Adele Cushman, Oct. 17, 1896. B.S., Univ. Wis., 1909.

Hathaway, Floyd Cecil, co. agrl. agt., Grafton, N. D.

General farmer, Minn., 1898–1906; teach. agr. and manual training, Redfield, S. D., 1912–3; teach. agr., State Normal and Ind. Sch., Ellendale, N. D., 1913–8. *Auth.:* Teaching Agriculture in the Rural School, 1916. *b.* Boone Co., Ill., Dec. 13, 1883; *s.* Willie Nash and Minnie Jane (Brooks) H.; reared on farm; *m.* Mable Ethel Hay, Aug 29, 1912; *c.* Ruth Dorothy, Donald Floyd. B.S., S. D. State Coll., 1912.

Haverstick, Harry Hoyt, co. agrl. agt., Franklin, Pa.

Instr. sci. and agr., Kiskinnetas Acad., Pa., 1914–5. *b.* Mt. Jay, Pa., Oct. 27, 1882; *s.* John M. and Elvina (Warfel) H.; reared on farm; *m.* Helene E. Wieneke, Jan. 15, 1917. B.S., Penn. State Coll., 1916; Engin., 1918. Kappa Sigma.

Havner, Harry Harrison, prof. an. husb. ext., Penn. State Coll., State College, Pa.

Asst. an. husb., Penn. State Coll., 1911–2; instr., 1912–4; asst. prof., 1914–6; assoc. prof., 1916–7; assoc. prof. an. husb. ext., 1917–8; prof., 1918—. Vet. ed., National Stockman and Farmer. *b.* Coryden, Ia., Nov. 11, 1888; *s.* Geo. J. and Dora (Simmons) H.; reared on farm; *m.* Ruth Adeline Stearns, Aug. 20. 1913; *c.* Harry Dean, Robert Stearns. D.V.M., Ia. State Coll., 1911; M.S.A., Penn. State Coll., 1916. Phi Sigma Kappa; Alpha Zeta.

Haw, John W., co. agrl. agt., Langdon, N. D.

Princ. agrl. high-sch., Arlington, Minu., 2 yrs.; supt. agrl. dept., Putnam Agr. Sch., Sleepy Eye, Minn., 3 yrs. *b.* Lewisville, Wis., Oct. 23, 1889; *s.* John and Clara (Perkins) H.; reared on farm; *m.* Frances Ehmke, Jul. 2, 1910; *c.* Nivea, Robt., Nathan.

Hawkins, Joe Cephus, co. agrl. agt., Condon, Ore.

Farmer, Tex. and Okla., 6 yrs., Wash., 6 yrs. *b.* Granger, Tex., June 6, 1889; *s.* David H. and Hester Jane (Goldsmith) H.; reared on farm. B.S., Ore. Agr. Coll., 1917.

Hawkins, Layton S., asst. dir. for agrl. educ., Fed. Bd. for Voc. Educ., Washington, D. C.

Instr. sci. and agr., State Normal Sch., Cortland, N. Y., 1904–10; dir. agr., 1910–2; specialist in agrl. educ., N. Y. State Educ. Dept., 1912–6; dir. agrl. and ind. educ., 1917; present position, 1917—. Mem. exec. com., Am. Assoc. for Adv. of Agrl. Teaching. Rep. State Educ. Dept. on N. Y. State Food Supply Comn., 1917. *b.* Chemung Co., N. Y., Jan. 4, 1877; *s.* C. Frank and Sabina E. (Layton) H.; reared on farm; *m.* Caroline Monell

Curry, Jul. 31, 1900; *c.* Layton S. Jr. A.B., Amherst Coll., 1904; A.M., 1907. Delta Upsilon.

Hawkins, Lee Carlton, co. agrl. agt., Byrdstown, Tenn.
b. White Pine, Tenn., Jan. 1, 1891; *s.* Will and Carrie (Saville) H.; reared on farm. B.S., Lincoln Memorial Univ., 1916.

Hay, Clair Edwards, co. agrl. agt., Taylorville, Ill.
b. Kankakee, Ill., Aug. 27, 1890; *s.* Leon and Mary J. (DeLagneau) H.; reared on farm; *m.* Grace E. Trobaugh, Mar. 12, 1913; *c.* Constance Edith. B.S., Univ. Ill., 1913. Alpha Zeta.

Hayes, Augustus Washington, co. agrl. agt., Elyria, O.
Served Ill. Soil Survey, 1907–9; asst. Soil Survey, Ill. Exp. Sta., 1910; teach. agr., Minn. high-schs., 1911–3; mem. Purdue Univ. ext. staff, 1913–5; co. agt., Sullivan, Ind., 1913–6; agt. Lorain Co., O., 1917—. *b.* Pleasant Plains, Ill., Jul. 2, 1884; *s.* J. W. and Fannie (Pierce) H.; reared on farm; *m.* Martha Fidelia Durham, June 14, 1917. B.S., Univ. Ill., 1907; M.S., Univ. Wis., 1915; grad. student, Univ. Ill. and Univ. Wis., 1916–7, Oberlin Coll., 1917–8. Alpha Zeta.

Hayes, Fred Montreville, asst. prof. vet. sci., Univ. Calif., Berkeley, Calif.
Instr. vet. sci., Kans. State Agr. Coll., 1908–11; instr., Univ. Calif., 1912–3; asst. prof., 1913—. Sec. Calif. State Vet. Med. Assoc., 1916–7; vice-pres., 1918. *b.* Bourbon Co., Kans., Jul. 30, 1885; *s.* Harvey Lewis and Eva (Higbie) H.; reared on farm and in city; *m.* Flora Cornelia Knight, Jul. 17, 1912. D.V.M., Kans. State Agr. Coll., 1908.

Hayes, Herbert Kendall, assoc. prof. plant-breeding, Univ. Minn., University Farm, St. Paul, Minn.
Asst. agron., Conn. Exp. Sta., 1908–11; plant-breeder, 1911–4; present position, 1915. *b.* Granby, Conn., Mar. 11, 1884; *s.* Marshall C. and Mary Ella (Merriam) H.; reared on farm; *m.* Anna A. Cushman, Sept. 28, 1911; *c.* Herbert, Mary. B.S., Mass. Agr. Coll., 1908; M.S., Harvard Univ., 1911. Kappa Sigma.

Hayes, Martin Luther, prof. agrl. educ., Tex. A. & M. Coll., College Station, Tex.
Teach. Latin, German, math., Everton Acad., Mo., 1902–3; Latin and sci., Marshall high-sch., Mo., 1903–5; princ. sci., Slater high-sch., 1906–7; supt. schs., Oak Grove, 1907–8; supt. Steelville, 1909–11; present position, 1913—. Mem. Com. on Agr., Nat. Educ. Assoc. Contributing ed., Texas School Journal. *b.* Marshall, Mo., Feb. 6, 1877; *s.* Martin and Lizzie (Dull) H.; reared on farm; *m.* Maybelle Wallin, 1908; *c.* M. Edwin. A.B., Mo. Valley Coll., Marshall, 1902; A.M. in Educ. and B.S.A., Univ. Mo., 1913.

Haynes, Fred Emory, asst. prof. sociol., State Univ. Ia., Iowa City, Ia.
Instr., Univ. Calif., 1892–5; prof. econ. and sociol., Morningside Coll., Sioux City, Ia., 1900–14; present position, 1914—. Attention to rural sociol. *Auth.:* Third Party Movements, 1916. *b.* Mass., Dec. 20, 1868; *s.* Chas. Emory and Ellen R. (Warner) H.; reared in town. A.B., Harvard Univ., 1889; A.M., 1890; Ph.D., 1891.

Hays, John C., co. agrl. agt., Casper, Wyo.
b. Loveland, Colo., May 26, 1887; *s.* John and O. C. (Gard) H.; reared on farm. B.S.A., Colo. Agr. Coll., 1912. Sigma Theta Pi; Sigma Alpha Upsilon.

Hays, Willet Martin, farmer, West Chester, Pa.
Asst. agr., Ia. State Coll., 1886; assoc. ed., Prairie Farmer, Chicago, 1887; asst. prof. agr., Univ. Minn., 1888–9; prof., 1890–1; prof. agr., N. D. Agr. Coll., 1892–3; prof. agr. and agrst. Exp. Sta., Univ. Minn., 1894–1904; asst. sec. agr., Washington, 1905–12; adv. to Argentine minister of agr., 1913; adv. to Univ. of Tucuman, 1914; farmer, 1915—. Organizer and sec. Am. Genetics Assoc., 1903–12 and ed. Journal of Heredity, 1910–2; organizer and sec. Minn. Field Crops Breeders' Assoc. First pres. Peace Soc. of Washington, 1912–3. Traveled in Europe and S. America. *Auth.:* Rural School Agriculture, 1903; Breeding Plants and Animals, 1904; Farm Development, 1895. *b.* Union, Ia., Oct. 19, 1859; *s.* Silas and Christena (Lepley) H.; reared on farm; *m.* Clara Sheppard, 1885 (d. 1893); 2d, Ellen Beach, 1897; *c.* Bessie, Myron E., Doris

Marie, Silas B. B. Agr., Ia. State Coll., 1885; M. Agr., 1896. Sigma Xi.

Hayward, Harry, dean dept. agr. and dir. Exp. Sta., Del. Coll., Newark, Del.

Asst. dairy husb., Penn. State Coll., 1894–6; instr., 1896–8; asst. prof., 1898–1902; prof. an. and dairy husb., N. H. A. & M. Coll., 1902–3; asst. chief Dairy Div., Bur. An. Ind., U. S. Dept. Agr., 1903; dir. dept. agr., Mt. Hermon Boys' Sch., 1903–6; present position, 1906—. Mem. State Bd. Educ. Dir. Farmers' Trust Co., Newark, Del.; trustee Ferris Ind. Reform Sch. *b.* Lewiston, N. Y., May 19, 1869; *s.* Geo. Calvin and Frances (Baker) H.; reared on farm; *m.* Lillian Woolson, Sept. 7, 1897; *c.* Mary Frances. B.S.A., Cornell Univ., 1894; M.S., 1901; special course in agr., Univ. Minn., Hamelin Dairy Sch., Germany, Reading (England) Coll., Harvard Med. Sch. Sigma Xi; Phi Kappa Phi; Kappa Sigma.

Hazen, Leslie Eugene, asst. prof. farm mech., Cornell Univ., Ithaca, N. Y.

Special agt., U. S. Dept. Agr., 1906–9; farmer, 1908–10; instr. agr. and military drill, S. Kans. Acad., 1910–1; asst. in dry land agr., U. S. Dept. Agr., 1911–3; instr. farm mech., Cornell Univ., 1913–6; asst. prof., 1917—. *b.* Centralia, Kans., Nov. 8, 1884; *s.* Newlon Seward and Elizabeth Caroline (Ewing) H.; reared on farm; *m.* Ella V. Brooks, Sept. 15, 1909; *c.* Xerlan Ruth, Durion Newlon, Gretzolon Lange. B.S. in Agr., Kans. State Agr. Coll., 1906; M.E., Cornell Univ., 1916.

Headlee, Thomas J., prof. ent. and ent. Exp. Sta., state ent., Rutgers Coll., New Brunswick, N. J.

Asst. ent., N. H. Exp. Sta., 1906–7; assoc. ent., Jul.–Oct., 1907; prof. ent., Kans. State Agr. Coll., ent. Exp. Sta., state ent., 1907–12; present position, 1912—. Fellow A. A. A. S. Sec.–treas. N. J. Mosquito Extermination Assoc. *b.* White Co., Ind., Feb 13, 1877; *s.* Josephus and Ruann (Mattix) H.; reared on farm; *m.* Blanche Ives, 1903; *c.* Mary Ruanna, Josephine, Miriam Esther, Ruth Margaret. A.B., Univ. Ind., 1903; A.M., 1904; Ph.D., Cornell Univ., 1906. Sigma Xi; Phi Beta Kappa; Alpha Zeta.

Heald, Franklin Ernest, state agt. for training agrl. teachers, Mass. Bd. Educ., Amherst, Mass.

Princ. secondary schs., 1899–1914; specialist in agrl. educ., U. S. Dept. Agr., 1914–8; present position, 1918—. Sec. Am. Assoc. for Adv. Agrl. Teaching, 1917—. *b.* Brattleboro, Vt., Nov. 10, 1873; *s.* Wm. F. and Jennie E. (Clayton) H.; reared in village and on farm; *m.* Grace E. Boyd, Aug. 28, 1901; *c.* Theodore B., Kenneth F. B.S., Dartmouth Coll., 1897; M.A., 1908. Phi Delta Theta.

Heald, Frederick De Forest, head dept. plant path. and path. Exp. Sta., Wash. State Coll., Pullman, Wash.

Prof. biol., Parsons Coll., Fairfield, Ia., 1897–1903; adj. prof. plant physiology, Univ. Neb., 1903–5; assoc. prof. bot. and bot. Exp. Sta., 1905–6; prof. agrl. bot. and bot. Exp. Sta., 1906–8; head Sch. Bot., Univ. Tex., 1908–12; path. Pa. Chestnut Tree Blight Comn., 1912–4; present position, 1915—. Collaborator, U. S. Dept. Agr., 1908; expert, 1909–10; agt., 1912–4; collaborator, 1915—. Mem. Wash. State Insecticide and Fungicide Bd. Fellow A. A. A. S. *Auth.:* Revision of Analytic Keys to Genera and Species of North American Mosses, 1897; Laboratory Manual in Elementary Biology, 1902; (with Lewis) Experiments in Plant Physiology, 1910. *Assoc. ed.,* Phytopathology, 1911–6. *b.* Midland City, Mich., Jul. 23, 1872; *s.* Henry Francis and Hettie (Charles) H.; reared on farm; *m.* Nellie Townley, Dec. 27, 1899; *c.* Adelaide, Henry T., Marian Bessey. B.S., Univ. Wis., 1894; M.S., 1896; Ph.D., Leipzig Univ., 1897. Phi Beta Kappa; Sigma Xi.

Healey, Leonard H., farmer, sec. State Bd. Agr., N. Woodstock, Conn.

Master State Grange; overseer Nat. Grange; sec. Conn. State Fairs Assoc. *b.* Des Moines, Ia., Oct. 9, 1865; *s.* Amasa A. Child and Sarah L. (Child) H.; reared on farm; *m.* Carrie A. Blackmar, June 13, 1889; *c.* Maud Elizabeth, John Blackman, L. H. Jr., Ewart Gladstone, Merrill Loring, Beatrice Child, Sarah Estelle.

Healy, Daniel Joseph, prof. bact., bact. Exp. Sta., Univ. Ky., Lexington, Ky.

Anat., Surgeon General's Off., 1904–7; supt. Ky. Inst. for Feeble-Minded

Children, 1909–10; bact., Ky. Exp. Sta., 1910—; prof. bact., Univ. Ky., 1911—. Mem. Com. Bact. Standards, Assoc. Am. Dairy, Food and Drug Officials, 1911–3. *b.* Toronto, Canada, Mar. 26, 1873 (naturalized 1900); *s.* Wm. and Eleanor (McCarthy) H.; reared in city; *m.* Louise Susette Bergmann, June 26, 1902. M.D.C.M., McGill Univ., 1896.

[Heard, D. B., p. 311

Hecht, August George, asst. prof. flor., Mass. Agr. Coll., Amherst, Mass.

Instr. hort., Univ. Ill., 1914–6; present position, 1917—. In U. S. Army, 1918—. *b.* Overland, Mo., June 6, 1892; *s.* John and Marie (Krieger) H.; reared on farm; *m.* Olive Neville, Dec. 10, 1917. B.S., Univ. Ill., 1914.

Hecke, George Henry, fruit-grower and packer, and state comnr. of hort., Woodland, Calif.

Formerly expert in viticulture, U. S. Dept. Agr. *b.* Hamburg, Germany, Jan. 4, 1868 (naturalized 1898); *s.* Robt. and Augusta H.; reared in city; *m.* Elizabeth Welch; *c.* Leila, Martha. Educ. Germany, France, Royal Bot. Gard., Kew, England.

Hedge, James Clay, co. agrl. agt., Court House, Akron, O.

b. Sarahsville, O., Apr. 25, 1888; *s.* John K. and Emma (Brown) H.; reared on farm; *m.* Marie E. Kohr, Nov. 28, 1917. B.S.A., Ohio State Univ., 1911.

Hedges, Arthur F., co. agrl. agt., Glenville, W. Va.

Prof. agr., Northland Coll., Ashland, Wis., 1916–7; agt. Gilmer Co., W. Va., 1917—. *b.* Bradford, N. Y., Aug. 30, 1889; *s.* Frank and Eva (Mathews) H.; reared on farm. B.S., Univ. Wis., 1915. Alpha Zeta.

Hedrick, Ulysses Prentiss, hort., N. Y. Agr. Exp. Sta., Geneva, N. Y.

Asst. hort., Mich. Agr. Coll., 1893–5; prof. bot. and hort., Ore. Agr. Coll., 1895–7; prof. bot. and hort., Utah Agr. Coll., 1897–9; asst. prof. hort., Mich. Agr. Coll., 1899–1902; prof., 1902–5; present position, 1905—. Fellow A. A. A. S. *Auth.:* Grapes of New York, 1907; Plums of New York, 1910; Cherries of New York, 1914; Peaches of New York, 1917. *b.* Independence, Ia., Jan. 15, 1870; *s.* Benjamin F. and Mary Catherine (Myers) H.; reared on farm; *m.* Amy Willis Plummer, June 23, 1898; *c.* Catherine Layton, Penelope Rodney, Ulysses P. Jr. B.S., Mich. Agr. Coll., 1893; M.S., 1895; D.Sc., Hobart Coll., 1913. Sigma Xi.

Hedrick, Wilbur Olin, prof. econ., Mich. Agr. Coll., E. Lansing, Mich.

Instr. English, Mich. Agr. Coll., 1891–3; asst. prof. econ., 1893–1906; prof. econ. and hist., 1906–16; prof. econ., 1916—. Collaborator U. S. Dept. Agr. in rural credit research, 1914–6. *Auth.:* History of Railroad Taxation in Michigan, 1911. *b.* Elkhart Prairie, Ind., Apr. 3, 1868; *s.* Benj. F. and Mary C. (Myers) H.; reared on farm; *m.* Lucilia Baker, Aug. 3, 1898; *c.* Helen Elizabeth, Hester Baker, Amy Jeanette, Marion. B.S., Mich. Agr. Coll., 1891; M.S., Univ. Mich., 1896; Ph.D., Univ. Mich., 1909.

Helm, Charles Alton, asst. prof. farm crops, Univ. Mo., Columbia, Mo.

b. Sheldon, Mo., Feb. 4, 1889; *s.* C. B. and Elizabeth (Sullins) H.; reared on farm; *m.* Nellie M. McGehee, June 3, 1914. B.S., Univ. Mo., 1913; M.A., Univ. Neb., 1916. Sigma Xi; Alpha Zeta.

Helmreich, John Arthur, co. agrl. agt., Torrington, Wyo.

Instr. an. husb., Colo. Agr. Coll., 1913–6; agt. Goshen Co., Wyo., 1916—. In Field Artillery, U. S. Army, 1891—. *b.* Boonville, Mo., Sept. 2, 1888; *s.* Edward H. B.S., Univ. Mo., 1913.

Helyar, Frank G., dir. short-courses, Rutgers Coll., and assoc. in station administration, N. J. Exp. Sta., New Brunswick, N. J.

In dept. feeds and feeding, Mass. Exp. Sta., 1905–6; dir. dept. agr., Mt. Hermon Boys' Sch., Mass., 1906–10; dir. N. Y. State Sch. Agr., Morrisville, 1910–7; present position, 1917—. Vice-pres. 6th Judicial Distr., N. Y. State Agrl. Soc. *b.* Boston, Mass., Feb. 6, 1883; *s.* James P. and Ada M. (Gould) H.; reared on farm and in village; *m.* Irma M. Hatcher, Apr. 25, 1908; *c.* Elizabeth Ada, James Edwin. B.S., Univ. Vt., 1906. Alpha Zeta.

Henceroth, John William, western ed. manag. of Soil Improvement Com., 1916 Postal Telegraph Bldg., Chicago, Ill.
b. Limestone, W. Va., Dec. 12, 1884; *s.* Jacob and Josephine (Black) H.; reared on farm; *m.* Laura Leota Gieseler, Sept. 16, 1914; *c.* Stanley Gieseler. B.S.A., Ohio State Univ., 1914.

Henderson, Arthur P., co. agrl. agt., Bottineau, N. D.
Farmer, Ill., 1879–1900; Minn., 1900–12; agt. Bottineau Co., N. D., 1914—. *b.* Salem, Mass., Aug. 17, 1860; *s.* John H. B. and Jeanette H. (Weaver) H.; reared in city; *m.* Maria L. Gill, Oct. 4, 1883; *c.* Nellie F., Edwin J., Mavel J., Fannie H., Emma G., Jeanette H.

Henderson, Walter C., asst. chief, Bur. Biol. Survey, U. S. Dept. Agr., Washington, D. C.
Admitted to Bar of U. S. Supreme Court, Nov. 1910. Asst. to solicitor, U. S. Dept. Agr., 1910–6. Special attention to laws relating to Dept. Agr. *b.* Chelsea, Mass., Jul. 6, 1876; *s.* Wm. C. and Margaret (Robertson) H.; reared in city; *m.* Margaret L. Orpin, Oct. 21, 1908; *c.* Fletcher Orpin. LL.B., Boston Univ. Sch. of Law, 1903. Epsilon Pi.

Hendricks, George B., dir. Sch. of Commerce and Business Administration, Utah Agr. Coll., Logan, Utah.
Asst. prof. econ., Brigham Young Coll., 1905–7; prof., 1908–9; asst. prof. econ., Utah Agr. Coll., 1909–15; prof. finance and banking, 1915–7; dir. Sch. of Com., 1917—. *b.* Lewiston, Utah, Nov. 25, 1881; *s.* Brigham A. and Mary Rebecca (Stoddard) H.; reared on farm; *m.* Caroline A. McAlister, June 5, 1912; *c.* Geo. B. Jr., Harold Gordon. A.B., Brigham Young Coll., 1903; A.M., Harvard Univ., 1908.

Hendrickson, Arthur Howard, asst. prof. pom., Univ. Calif., Berkeley Calif.
Instr. pom., Univ. Calif., 1913–7; asst. prof., 1917—; exchange prof. pom., Cornell Univ., 1918–9. *b.* Grand Rapids, Mich., Feb. 2, 1890; *s.* Chas. E. and Martha S. (Christenson) H.; reared in city and country; *m.* Hazel Parker Smith, May 20, 1917. B.S., Mich. Agr. Coll., 1913. Alpha Zeta.

Hendrix, Wilbur Jordan, co. agrl. agt., Greenville, O.
Asst. agron., Univ. Mo., 1910–2; ext. instr., Ohio State Univ., 1912–8. *b.* Gratis, O., Aug. 2, 1883; *s.* E. W. and Martha (Jordan) H.; reared on farm; *m.* Grace Heller, Mar. 15, 1912; *c.* John Heller, James Murray. B.S.A., Ohio State Univ., 1910. Delta Theta Sigma.

Hendry, George Whiting, asst. prof. agron., Univ. Calif., Berkeley, Calif.
Present position, 1913—. *b.* Indianapolis, Ind., Jan. 22, 1885; *s.* Frank Truman and Estelle (Whiting) H.; reared in city and country. B.S., Cornell Univ., 1913. Phi Kappa Psi; Alpha Zeta.

Henke, Louis A., prof. agr. and head agrl. dept., Coll. of Hawaii, Honolulu, H. I.
Dir. agr., Elbo Lake, Minn., 1912–6; present position, 1916—. Mem. agrl. com., Territorial Food Comn. of Hawaii. Chm. Live-stock Sect., Hawaii Territorial Fair. *b.* Lowell, Wis., May 13, 1889; *s.* Wm. and Mathilde (Koch) H.; reared on farm. B.S., Univ. Wis., 1912.

Henry, Clarence, asst. co. agt. leader, Purdue Univ., LaFayette, Ind.
Farm manag., Hebron, O., 1909–10; instr. high-sch., Hinckley, Minn., 1910–1; instr. agr., State Normal Sch., Valley City, N. D., 1911–4; co. agrl. agt., Allen Co., Ind., 1914–6; present position, 1916—. *b.* Wesleyville, Pa., Mar. 10, 1885; *s.* G. S. and Sara A. (Ripley) H.; reared on farm; *m.* Nell R. Rosebraugh, Aug. 24, 1911; *c.* Robt. R. B.S., Penn. State Coll., 1909. Delta Tau Delta.

Henry, Martin Luther, invest. in marketing, Bur. Markets, U. S. Dept. Agr., Washington, D. C.
Asst. hort., Univ. Mo., 1916–7. *b.* Little Rock, Ark., June 17, 1885; *s.* Marion J. and Minerva (Francis) H.; reared on farm. B.S.A., Univ. Mo., 1914; M.A., 1917; B.S. Educ., 1917. Sigma Phi Epsilon; Sigma Kappa Zeta.

Henry, William Arnon, emeritus prof. agr., Univ. Wis., Madison, Wis.
Princ. New Haven, Ind., public schs., 1871–3; princ. Boulder, Colo., pub. schs., 1873–6; prof. bot. and agr., Univ. Wis., 1880–2; prof. agr., 1883–7; prof. agr. and dir. Exp. Sta., 1887; dean Coll. Agr. and dir. Exp. Sta., 1887–1907; emeritus

prof. agr., 1907—. Agrl. del., Paris Expos., 1900. *Auth.:* Feeds and Feeding (18th ed., with Morrison). On editorial staff, Breeders' Gazette, Hoard's Dairyman. *b.* Norwalk, O., June 16, 1850; *s.* Wm. and Martha Haines (Condict) H.; reared on farm; *m.* Clara Roxann Taylor, Jul. 1881; *c.* Arnon Taylor. B.S.A., Cornell Univ., 1880; D.Agr., Univ. Ill., 1904; D.Sc., Univ. Vt., 1904, Mich. Agr. Coll., 1907.

Hensel, Frederick William Jr., assoc. prof. hort., Tex. A. & M. Coll., College Station, Tex.

Asst. prof. hort., Tex. A. & M. Coll., 1913; assoc. prof., 1914—. Farm operator, 3 yrs. *b.* San Antonio, Tex., Jul. 10, 1884; *s.* F. W. and Augusta (Stein) H.; reared in city; *m.* Ara Lee Jones, Sept. 1, 1915. B.S., Tex. A.&M. Coll., 1907; M.S., Cornell Univ., 1915. Alpha Zeta.

Hepler, Jesse Raymond, asst. prof. hort., N. H. A. & M. Coll., Durham, N. H.

Instr. hort., Univ. Wis., 1911–7; present position, 1917—. *b.* Pitman, Pa., Aug. 25, 1886; *s.* Jesse and Louisa (Klock) H.; reared on farm; *m.* Rebecca O. Peterson, Sept. 12, 1916; *c.* Helen Louise. B. S., Penn. State Coll., 1911; grad. student, Univ. Wis. Phi Kappa Phi.

Hepler, John Verne, co. agrl. agt., Dodge City, Kans.

Teach. agr., high-sch., Iola, Kans., 1915–7. *b.* Manhattan, Kans., 1892; *s.* Wm. H. and Roxanna (Flick) H.; reared on farm; *m.* Nina O. Bell, Feb. 10, 1918. B.S., Kans. State Agr. Coll., 1915. Pi Kappa Alpha; Gamma Sigma Delta.

Herms, William Brodbeck, assoc. prof. parasitology. Coll. Agr., Univ. Calif., Berkeley, Calif.

Princ. Sch. of Commerce, German Wallace Coll., 1902–5; teach. fellow in zool., Ohio State Univ., 1905–6; acting head dept. zool., Ohio Wesleyan Univ., 1906–7; Edward Austin fellow in zool., Harvard Univ., 1907–8; instr. expl. zool., Ohio State Univ., summers 1908–9; asst. prof. ent., Univ. Calif., 1908–12; asst. prof. applied parasitology, 1912–3; asst. prof. parasitology, 1913–5; assoc. prof., 1915—. Fellow A. A. A. S. Mem. Nat. Malaria Comn.; consulting parasitologist, Calif. State Bd. Health. Del. from Calif. to Inter. Hygiene Exhibit, Dresden, Germany. *Auth.:* Laboratory Guide to the study of Parasitology, 1913; Malaria,— Cause and Control, 1913; Text-book in Medical and Veterinary Entomology, 1915. Editorial bd., Journal of Parasitology. *b.* Portsmouth, O., Sept. 22, 1876; *s.* Herman and Rosa Emma (Brodbeck) H.; reared on farm and in town; *m.* Lillie C. Magly, June 14, 1902; *c.* Wm. Magly, Herbert Parker, Geo. Walter. B.S., German Wallace Coll., 1902; M.A., Ohio State Univ., 1906. Sigma Xi; Alpha Zeta; Alpha Kappa Lambda.

Herrick, Glenn Washington, prof. econ. ent. and ent. Exp. Sta., Cornell Univ., Ithaca, N. Y.

Prof. biol., Miss. A.&M. Coll., 1897–1908; prof. ent., Tex. A.&M. Coll., 1908–9; present position, 1909—. Fellow Ent. Soc. Am. *Auth.:* Insects of Economic Importance, 1905; Text-Book in General Zoology, 1907; Laboratory Exercises in General Zoology, 1907; Insects Injurious to the Household, 1914. *b.* Otto, N. Y., Jan. 5, 1870; *s.* Stephen M. and Marium (Botsford) H.; reared on farm; *m.* Nannie Young Burke, Aug. 17, 1898; *c.* Marvin T., Stephen M., Anna B. B.S.A., Cornell Univ., 1896; grad. work Harvard Univ. Alpha Gamma Rho.

Herrick, Robert S., ext. prof. pom., Ia. State Coll., Ames. Ia.

Field hort., Colo. Agr. Coll., 1909–12; present position, 1912—. *b.* Littleton, Colo., Jan. 22, 1882; *s.* Robert D. and Nancy (Hart) H.; reared on farm; *m.* Laura Pease, Dec. 18, 1913. B.S., Colo. Agr. Coll., 1908. Gamma Sigma Delta.

Herrington, Garvin Leon, boys' club agt., Univ. Fla., Gainesville, Fla.

Co. agrl. agt., Trenton, Tenn., 1913; agrl. superv., Shelby Co. schs., Memphis, 1914. *b.* Philadelphia, Miss., Nov. 17, 1887; *s.* Nichols Edmund and Mary Elizabeth (Lewis) H.; reared on farm; *m.* Margaret Adams, Oct. 8, 1917. B.S., Miss. A. & M. Coll., 1912.

Herron, Leonard Graves, co. agrl. agt., Idabel, Okla.

Asst. hort., Okla. A.& M. Coll., 1913–6; specialist in hort., Miss. A.&M. Coll., 1916–8; agt., McCurtain Co., Okla., 1918—. Farm operator, 1914—. *b.* St.

Joseph, Mo., May 4, 1891; *s.* Joseph Crocker and Lydia (Graves) H.; reared on farm; *m.* May Herndon, June 7, 1915; *c.* Leonard G. Jr., Joseph Quintus. B.S., Okla. A.&M. Coll., 1913.

Herron, Leonard Smith, ed. Nebraska Union Farmer, Omaha, Neb.
With the Nebraska Farmer, Lincoln, 1908–17; present position, 1917—. *b.* Morning Sun, Ia., Jan. 13, 1884; *s.* John Robt. and Eliza Campbell (Johnston) H.; reared on farm; *m.* Mabel Anna Beatty, Apr. 28, 1909; *c.* Ruth Marie. B.S.A., Ia. State Coll., 1908. Delta Sigma Rho; Delta Theta Sigma.

Hershey, Hiram Frey, co. agrl. agt., Gettysburg, Pa.
Asst. expl. pom., Penn. State Coll., 1910–2; teach. winter-course, 1912–3; manag. Estherton Fruit Farm, Harrisburg, 1912–7; agt. Adams Co., Pa., 1917—. Sec. Hort. Soc. of Penn., 1917–8. *b.* E. Petersburg, Pa., Oct. 28, 1888; *s.* Hiram S. and Annie (Frey) H.; reared on farm; *m.* Adele Hostetter, Apr. 28, 1913; *c.* Mary Rebecca. B.S., Penn. State Coll., 1910. Alpha Zeta; Phi Kappa Phi.

Hesler, Lex R., asst. prof. plant path., Cornell Univ., Ithaca, N. Y.
Asst. bot., Wabash Coll., 1909–10; fellow plant path., Cornell Univ., 1910–2; instr., 1912–4; asst. prof., 1914—. *Auth.:* Manual of Fruit Diseases, 1917. *b.* Veedersburg, Ind., Feb. 20, 1888; *s.* Clinton F. and Laura Iris (Youngblood) H.; reared on farm; *m.* Esther Lillian Collins, Jul. 2, 1914. A.B., Wabash Coll., 1911; Ph.D., Cornell Univ., 1914. Sigma Xi; Kappa Sigma; Gamma Alpha.

Hess, George M., co. agrl. agt., Roosevelt, Utah.
b. Farmington, Utah, Feb. 25, 1892; *s.* Geo. A. and Lucy E. (Sanders) H.; reared on farm; *m.* Chloe Knowlton, Jan. 10, 1917; *c.* Geo. M. Jr. B.S., Utah Agr. Coll., 1914.

Hetzel, Ralph Dorn, pres. N. H. A.&M. Coll., Durham, N. H.
Instr. public speaking, Ore. Agr. Coll., 1908–9; asst. prof., 1910–1; prof., 1911–3; dir. ext., 1913–7; present position, 1917—. Chm. Ext. Sect., Am. Assoc. Agrl. Colls. and Exp. Stas., 1915. *b.* Merrill, Wis., Dec. 31, 1882; *s.* Henry C. and Sadie (Dorn) H.; reared in town; *m.* Estelle H. Heineman, Aug. 5, 1911; *c.* Ralph Jr., Helene, Roger, Harriet. A.B., Univ. Wis., 1906; LL.B., 1908; LL.D., Dartmouth Coll., 1918. Delta Upsilon.

Hewitt, Arthur Wentworth, clergyman, Plainfield, Vt.
Mem. Vt. House of Rep., 1912–7; mem. Vt. State Bd. Educ., 1915—. Rep. Vt. at Nat. Soc. for Promotion of Ind. Educ., Indianapolis, 1917; Nat. Conference on Rural Educ., Washington, 1918. Lect. on rural church at summer schs. *Auth.:* Harp of the North, 1916. *b.* W. Berlin, Vt., June 22, 1883; *s.* Arthur Lee and Florence Elnora (Eddy) H,; reared on farm; *m.* Nina Aletha Battles, Sept. 18, 1907. Grad. Montpelier Sem., 1904.

Hewitt, Jospeh Lee, prof. plant path., Univ. Ark., Fayetteville, Ark.
Asst. hort., Univ. Ark., 1905–7; assoc. and assoc. in chg., 1907–10; prof. plant path., 1910—. State plant path. Sec. to State Plant Bd. and chief insp., Little Rock, Ark., 1917—. *b.* Denver, Ind., May 7, 1881; *s.* Joseph Newton and Mary A. (Davis) H.; reared on farm; *m.* Beth Boright, Jul., 1905; *c.* Jerre Lee, Wm. Boright, Robt., Mary Beth, Richard Newton. B.S.A., Univ Mo., 1905.

Heyman, Arnold Cyrus, co. agrl. agt., Deming, N. Mex.
Princ. Rio Grande Ind. Sch., Albuquerque, N. Mex., 1908–18. *b.* Monroeville, O., Aug. 25, 1877; *s.* Wm. F. and Verena (Ballmer) H.; reared on farm; *m.* Henrietta W. J. Ludwig, Sept. 27, 1908; *c.* Inez Marie, Ludwig Henry. A.B., Heidelberg Univ., 1904; B.D., Chicago Theol. Sem., 1908.

Hibbard, Benjamin Horace, prof. agrl. econ., Univ. Wis., Madison, Wis.
Prof. econ., Ia. State Coll., 1902–12; expert special agt. on agr., U. S. Census, 1911; present position, 1912—. *b.* Bremer Co., Ia., Jan. 9, 1870; *s.* Alfred A and Elizabeth (Bazeley) H.; reared on farm; *m.* D. Jeannette Baker, 1902; *c.* Virginia. B.S., Ia. State Coll., 1898; Ph.D., Univ. Wis., 1902. Gamma Sigma Delta; Phi Kappa Phi.

Hibbard, Paul Llewellyn, asst. prof. agrl. chem., Univ. Calif., Berkeley, Calif.
b. Port Huron, Mich., Jul. 20, 1866; *s.* Chas. and Mary J. (Bryan) H.; reared on farm; *m.* Minnie Roselious, 1897; *c.* Violet. B.S., Univ. Neb., 1892.

Hibbs, Edwin Gerome, co. agrl. agt., Lisbon, O.
Instr. agr., State high-sch., Alberta Lea, Minn., 1914–5; dir. agr., 1915–7; agt. Columbian Co., O., 1917—. *b.* Tuscarawas, O., Aug. 29, 1888; *s.* Wm. and Martha (Henderson) H.; reared on farm; *m.* Irma Stella Thompson; *c.* J. Wm. B.S., Mt. Union Coll., 1911; B.S.A., Ohio State Univ., 1914.

Higgins, Allen Leet, co. agrl. agt., Sullivan, Ill.
With U. S. Bur. Soils, 1908–12; Ohio Exp. Sta., 1912–4; agt. Des Moines Co., Ia., 1914–6; Sullivan, Ill., 1918—. *b.* Elmwood, Ill., Apr. 29, 1885; *s.* B. P. and Mary Eliza (Leet) H.; reared on farm; *m.* Lulu Katherine Stephens, Apr. 24, 1914. B.S., Univ. Ill., 1907.

Higgins, James Edgar, hort., Hawaii Exp. Sta., Honolulu, H. I.
Superv. agr., Honolulu schs., 1898–1903; hort., Hawaii Exp. Sta., 1903–13; prof. hort., Univ. Porto Rico, 1913–4; present position, 1914—. Vice-pres. for Hawaii, Am. Pom. Soc. *b.* Wolfville, N. S., June 14, 1873 (naturalized 1896); *s.* D. F. and Amelia (DeWolf) H.; reared on farm; *m.* Nellie T. Chipman, Jul 31, 1898; *c.* Ronald De Wolf. B.A., Acadia Univ., 1895; M.S.A., Cornell Univ., 1898.

Higgins, Lyda Alexander, dairy husb., U. S. Dept. Agr., Starkville, Miss.
Dairy ext., N. C. Dept. Agr., 1910–2; with U. S. Dairy Div., 1912—. *b.* Higgins, N. C., Dec. 17, 1884; *s.* Thos. G. and Elizabeth (Sronce) H.; reared on farm; *m.* Maude Augustus Magee, May 11, 1913. B.S.A., N. C. A.&M. Coll., 1910.

Higley, Louis Allen, prof. and head dept. chem. and chem. Exp. Sta., N. Mex. A. & M. Coll., State College, N. Mex.
Chief tech. chem., The Kennicott Co., Chicago, Ill., 1908–9; The Centralia Mining Co., Guadalahara, Mex., 1909–11, prof. chem., Westminster Coll., Fulton, Mo., 1911–5; present position, 1915—. State chem. for N. Mex. *b.* Wilmot, O., Sept. 28, 1871; *s.* Lucian and Julia (Marchand) H.; reared on farm; *m.* Carrie L. Bradley, 1903; *c.* John Allen, Florence Louise, Carrie Evelyn, Joseph Leonard. A.B., Ohio Northern Univ., 1896; Ph.D., Univ. Chicago, 1907.

Hildwein, Herbert Lynn, co. agrl. agt., Kingman, Kans.
b. Hiawatha, Kans., Dec. 20, 1891; *s.* Chas. A. and Emma (Snyder) H.; reared on farm; *m.* Daisy Hensley, Feb. 2, 1918. B.S., Kans. State Agr. Coll., 1914.

Hill, Charles L., farmer, and breeder Guernsey cattle, Rosendale, Wis.
Pres. Am. Guernsey Cattle Club, 1912–4; sec. Western Guernsey Breeders' Assoc., 1911–8. Pres. Wis. State Bd. Agr.; mem. State Bd. Educ. Visited Isl. of Guernsey 7 times. *Auth.:* The Guernsey Breed, 1917. *b.* Rosendale, Wis., Sept. 5, 1869; *s.* Geo. C. and Georgianna (Brainard) H.; reared on farm; *m.* Mina V. O'Neil, Nov. 11, 1891; *c.* Anna Louise, Geo. O'Neil, Margaret Muriel, Jessie May, John Dudley, Miriam Althea. Student Univ. Wis., short-course, 1887.

Hill, Edward S., farmer, Freeville, N. Y.
Pres. Co. Agrl. Assoc. and Co. Sheep Growers' Assoc. Sec. Cheshire Swine Breeders' Assoc. *b.* Freeville, N. Y., May 27, 1860; *s.* A. B. and Sarah E. (Hart) H.; reared on farm; *m.* Mary L. Fox, Oct. 12, 1887; *c.* John H., Lawrence B., Donald F.

Hill, George Richard Jr., prof. bot. and dir. Sch. Agr., Utah Agr. Coll., Logan, Utah.
Asst. plant physiologist, Cornell Univ., 1910–1; instr., 1911–2; research asst., Mo. Bot. Gard., 1912–3; prof. bot., Utah Agr. Coll., 1913—; dir. Sch. Agr., 1916—. *b.* Ogden, Utah, Apr. 10, 1884; *s.* George Richard and Elizabeth Nancy (Burch) H.; reared on farm; *m.* Lizzie Odette McKay, Apr. 10, 1914. B.S., Brigham Young Univ., 1907; B.S.A., Utah Agr. Coll., 1908; Ph.D., Cornell Univ., 1912. Sigma Xi; Gamma Alpha.

Hill, Isaac William, asst. in chg. boys' club work, Off. Ext. South, States Relations Serv., Dept. Agr., Washington, D.C.
Princ. high-sch., 1884–93; prof. English and Latin, Spring Lake Coll., 1893–6;

pres., 1895–6; supt. city schs., 1896–1903. State supt. educ. for Ala., 1903–7; mem. State Text-book Comn. for Ala., 1903. *Auth.:* (with McBain) How We are Governed in Alabama and the Nation in 1910. *b.* Auburn, Ala., Jul. 25, 1861; *s.* Isaac and Harriet E. (Holt) H.; reared on farm; *m.* Laura T. Jones, June 18, 1890; *c.* Julia, Geraldine, Isaac Wm. Jr. A.B., Emory Coll., Oxford, Ga., 1880; A.M., 1883; LL.D., Univ. Ala., 1906. Phi Delta Theta.

Hill, William, lect. on agrl. econ., Bethany, W. Va.

From tutor to assoc. prof., Univ. Chicago, 1893–1912; dir. Agrl. Guild; organizing dir., Agrl. Dept., Bethany Coll., W. Va. Organized agrl. dept., Friends Bloomingdale Acad. Dir. Sand Hill Farm Life Sch., 1916–7. Dir. of organization of Fed. Food Administration, for W. Va., 1917—. Farmer. Agrl. trips through Europe. *b.* Bloomingdale, Ind., May 31, 1865; *s.* Nathan Vestal and Eliza (Canada) H.; reared on farm. A.B., Kans. State Univ., 1890; A.B., Harvard Univ., 1891; A.M., 1892. Phi Beta Kappa.

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Hills, Frank Burrows, chg. publicity and ext. work, Am. Guernsey Cattle Club, Peterboro, N.H.

Asst. prof. an. husb., Del. Coll., 1913–6; present position, 1916—. Capt. U. S. Army, 1918—. *b.* Bernardstown, Mass., Feb. 24, 1891; *s.* Chas. Russell and Mary L. (Wilder) H.; reared on farm. B.S., Mass. Agr. Coll., 1912; M.S., Ia. State Coll., 1913.

Hills, Joseph Lawrence, dean Coll. Agr. and dir. Exp. Sta., Univ. Vt., Burlington, Vt.

Asst. chem., Mass. Exp. Sta., 1882–3; asst. chem., N. J. Exp. Sta., 1884–5; chem. Phosphate Mining Co., Beaufort, S. C., 1885–8; chem., Vt. Exp. Sta., 1888–98; prof. agrl. chem., Univ. Vt., 1893–1906; prof. agron., 1906—; dean Coll. Agr., 1898—. Sec.-treas. Assoc. Am. Agrl. Colls. and Exp. Stas. and ed., proceedings . *b.* Boston, Mass., Mar. 2, 1861; *s.* Thomas and Amelia Ellen (Drew) H.; reared in city; *m.* Kate Conover, Sept. 11, 1888; *c.* Thomas Lawrence, Bertha. B.S., Mass. Agr. Coll., 1881; Boston Univ., 1881; D.Sc., Rutgers Coll., 1904. Kappa Sigma; Alpha Zeta; Phi Kappa Phi.

Hills, Thomas Lawrence, research bact., Ida. Exp. Sta., Moscow, Ida.

Asst. bact., Penn. Exp. Sta., 1914–5; present position, 1915—. 1st Lieut., Sanitary Corps, Nat. Army, 1918—. *b.* Burlington, Vt., Aug. 13, 1890; *s.* Joseph Lawrence and Kate (Conover) H.; reared in city; *m.* Helen E. Rutter, Sept. 11, 1917. Ph.B., Univ. Vt., 1913; M.S., Univ. Wis., 1914; Ph.D., 1916. Sigma Xi; Kappa Sigma; Phi Eta.

Hinds, Warren Elmer, prof. ent., state ent. and ent. Exp. Sta., Ala. Poly. Inst., Auburn, Ala.

Fellow A. A. A. S. First vice-pres. Am. Assoc. Econ. Ent., 1917; pres. Assoc. Cotton States Ent., 1908—; mem. Centro de Scienceas, Letras e Artes, Brazil. Mem. adv. com., Journal Economic Entomology. *b.* Townsend, Mass., Sept. 20, 1876; *s.* Warren David and Mary Persis (Colby) H.; reared on farm; *m.* Edith G. Gray, Mar. 4, 1903. B.S., Mass. Agr. Coll., 1899; Ph.D., 1902. Alpha Sigma Phi.

Hine, George Sherwood, state dairy comnr., Manhattan, Kans.

Superv. dairy tests, feed and fertilizer insp., Univ. Wis., 1907–9; princ. Marinette Co. Sch. Agr., 1909–10; dairy ext., Kans. State Agr. Coll., 1910–2; state dairy comnr., 1912—. *b.* Fairchild, Wis., Jan. 25, 1885; *s.* Rivilla C. and Kittie E. (Foster) H.; reared on farm; *m.* Edith Dahlberg, Aug. 19, 1911; *c.* Geo. C. B.S.A., Univ. Wis., 1907. Alpha Zeta.

Hines, Frank Richardson, co. agrl. agt., Rutledge, Tenn.

b. Harrisburg, Tenn., Mar. 28, 1887; *s.* Stephen Emory and Alberta Kate (Umberger) H.; reared on farm; *m.* Mayme H. Ayre, June 3, 1917; *c.* Frances Evelyn. B.S.A., Univ. Tenn., 1914.

Hinkle, Samuel Francis, co. agrl. agt., Webster Springs, W. Va.

Prof. sci. and agr., Cameron high-sch., 1916–7; present position, 1917—. *b.* Cameron, W. Va., Oct. 14, 1889; *s.* Wm. and Sarah (Giffen) H.; reared on farm; *m.* Nora Livingston, Aug. 30, 1917. B.S., Muskingum Coll., New Concord, O., 1914; B.S.A., Ohio State Univ., 1915. Tau Kappa Alpha.

Hislop, William, breeder and dealer in sheep, Spokane, Wash.

Instr. an. husb., Ohio State Univ., 1912–6; head dept. an. husb., Wash. State Coll., 1914–8. *b.* Ratho, Scotland, June 11, 1889; *s.* Thomas and Georgina (Annand) H.; *m.* Elizabeth Coit Kelton, Aug. 18, 1915. B.S., Edinburgh Univ., 1911; M.S., Kans. State Agr. Coll., 1912. Beta Theta Pi.

Hoard, William Dempster, dairy farmer and ed. Hoard's Dairyman, Ft. Atkinson, Wis.

Served in Civil War, 1861–5; nurseryman, Columbus, Wis., 1865–70; pub. Jefferson Co. Union, 1870–3; governor state of Wis., 1889–91. Organizer and officer in dairy assocs.; pres. Wis. Dairy Assoc.; pres. Farmers' Nat. Congress; lect. on agr. and country life; pres. Wis. World's Fair Com.; bd. manag. St. Louis Expos.; pres. Bd. Regents, Univ. Wis. *b.* Stockbridge, N. Y., Oct. 10, 1836; *s.* Wm. B. and Sarah Catherine (White) H.; reared on farm; *m.* Agnes Elizabeth Bragg, Feb. 9, 1860; *c.* Halbert L., Arthur Ralph, Frank W.

Hobson, Asher, dir. Off. Farm Markets, State of Wash., Pullman, Wash.

Research asst. marketing, Univ. Wis., 1913–6; field agt. in marketing, Bur. Markets, U. S. Dept. Agr., 1914—. *b.* Quenemo, Kans., Nov. 26, 1889; *s.* Felix and Ida May (Harr) H.; reared on farm and in village; *m.* Thea Dahle, June 26, 1917. B.A., Univ. Kans., 1913; M.A., Univ. Wis., 1915. Delta Sigma Rho.

Hochbaum, Hans Weller, co. agt. leader, Univ. Ida., Boise, Ida.

Teach. agr., State Teachers' Coll., Greeley, Colo., 1906–12; State Normal Sch., Los Angeles, 1912–3; co. agt. Ada Co., Ida., 1913–4; co. agt. leader, Ida., 1914—. *b.* Chicago, Ill., Jul. 20, 1881; *s.* John E. and Matilda (Weller) H.; reared on farm; *m.* Gertrude Stone Schenck, Mar. 15, 1910; *c.* Hans Albert, Mary Elizabeth. B.S.A., Cornell Univ., 1905. Alpha Zeta.

Hodgson, Albert Lee, co. agrl. agt., Winchester, Ind.

b. Mt. Vernon, S. D., May 28, 1890; *s.* R. M. and Mary E. (Knight) H.; reared on farm; *m.* Iris E. Robinson, Dec. 25, 1917. B.S., Univ. Wis., 1917.

Hodgson, Robert E., co. agrl. agt., Marshall, Minn.

Instr. farm crops, Univ. Minn., 1915–8. *b.* Luverne, Minn., Oct. 26, 1893; *s.* Lewis C. and Leila (Ebersol) H.; reared on farm; *m.* Helen F. Angier, Apr. 16, 1918. B.S., Univ. Minn., 1916. Alpha Zeta.

Hogan, Albert Garland, asst. prof. an. nutr., Kans. State Agr. Coll., Manhattan, Kans.

Asst. physiological chem., Yale Univ., 1913–4; asst. an. nutr., Kans. State Agr. Coll., 1914–7; asst. prof., 1917—. Lieut. Sanitary Corps, U. S. Army, 1917—. *b.* Maryville, Mo., Dec. 31, 1884; *s.* Wm. Carroll and Belle (Ford) H.; reared on farm. B.S., Univ. Mo., 1909; A.M., 1912; Ph.D., Yale Univ., 1914.

Hoke, Mac, co. agrl. agt., Enterprise, Ore.

Instr. agr., high-sch., Idaho Falls, Ida., 1912; Twin Falls, 1913–5; Boise, 1915–7. *b.* Cherokee, Kans., May 27, 1892; *s.* John P. and Anna (Montee) H.; reared on farm; *m.* Carrie Williamson, Dec. 30, 1915. B.S., Okla. A.&M. Coll., 1912.

Holdaway, Charles William, prof. dairy husb., Va. Poly. Inst., Blacksburg, Va.

Asst. dairy husb., Va. Poly. Inst., 1903–7; instr., 1907–14; assoc. prof., 1914–8; prof., 1918—. Traveled in Australia, Samoa, Hawaii. *b.* New Zealand, May 24, 1880; *s.* Chas. and Helen B. R. (Mair) H.; reared in town and on farm; *m.* Carrie E. McTavish, Dec. 25, 1907; *c.* Helen, Lorne, Chas., Amy. B.S., Va. Poly. Inst., 1912; M.S., 1916.

Holden, Perry Greeley, head agrl. ext. dept., International Harvester Co., Harvester Bldg., Chicago, Ill.

Instr. agr., Mich. Agr. Coll., 1889–93; prof. sci., Benzonia Coll., Mich., 1895; co. supt. schs., Benzie Co., Mich., 1895–6; prof. agron., Univ. Ill., 1896–1900; agrst., Ill. Sugar Refining Co., 1900–1; organizer Funk Bros. Seed Co., 1902; prof. agron. and vice-dean dept. agr., Ia. State Coll., 1902–12; head agrl. ext., 1906–12; present position, 1912—. *Auth.:* Vitalized Agriculture in the Rural Schools. *b.* Dodge Co., Minn., Oct. 14, 1865; *s.* Denison Franklin and Helen Mar (Wilson) H.; *m.* Carrie Burnett, Nov. 25, 1892. B.S., Mich. Agr. Coll., 1889; M.S., 1895;

B.Pd., Mich. State Normal Sch., Ypsilanti, 1894; Pd. M., 1912.

Holland, Franklin Pierce, pres. Tex. Farm and Ranch Pub. Co., Dallas, Tex.

Ex-mayor Dallas. *b.* Galveston, Tex., Sept. 22, 1852; *s.* Gustavus and Evelyn (Compton) H.; reared on farm; *m.* Pamelia Darling Allen; *c.* Franklin P. Jr., Reginald V., Gussie, James Porter, Marsh W.

Hollister, Sherman Preston, pom. and ext. hort., Conn. Agr. Coll., Storrs, Conn.

Hort., Hampton Normal and Agrl. Inst., 1909–11; instr. hort., Conn. Agr. Coll., 1911–7; pom. and ext. hort., 1917—. Treas. New England Peach Growers' Assoc. *b.* Medina, O., Feb. 11, 1884; *s.* John Burr and Hattie (Northrop) H.; reared on farm; *m.* Mary Cushing Rogers, Oct. 15, 1913; *c.* Mary Elizabeth. B.S.A., Cornell Univ., 1909.

Holst, John Henry, princ. secondary schs., Mont. State Coll., Bozeman, Mont.

Teach. public schs. until 1913; present position, 1913—; dir. summer session, Mont. State Coll., 1914—. Pres. Mont. Country Life Educ. Assoc., 1913—. Organizer of first consolidated sch. in Mont. *Ed.*, Country Life Dept., Mountain Educator, Montana Farmer. *b.* Gravois Mills, Mo., Mar. 2, 1873; *s.* N. J. and Rachel Jane (James) H.; reared on farm; *m.* Laura C. Maynard, Aug. 10 1910; *c.* Rachel Edith, Jane Maynard. Grad. Hooper Inst., Clarksburg, Mo.; M.A. (hon.), Univ. Mont., 1918.

Holt, Arthur E., clergyman, pastor First Presbyterian Church, Fort Worth, Tex.

Pastor, First Congregational Church, Pueblo, Colo., 1904–10; Manhattan, Kans., 1910-18. Mem. Nat. Social Serv. Comn. of Congregational Churches of Am. Specialty, rural church and social service. Editorial staff, Rural Educator. *b.* Longmont, Colo., Nov. 23, 1876; *s.* Asa D. and Fannie D. (Merrill) H.; reared on farm; *m.* Grace L. Bradshaw, 1904; *c.* Frances M., John B., Florence E. A.B., Colo. Coll., 1898. B.D., McCormick Sem.; Ph.D., Univ. Chicago, 1904.

Holt, James T. N., co. agrl. agt., Mt. Ida, Ark.

Ex. mem. House of Rep., Ark., 3 sessions, Senate, 2 sessions. Vice-pres. Ark. State Farmers' Union. *b.* Bingen, Ark., Apr. 12, 1863; *s.* J. T. and Cassie L. (Johnson) H.; reared on farm; *m.* Amanda J. Campbell, Dec. 25, 1887; *c.* J. T. M. Jr., P. C., Grace, Odessa, Charlie, Rector, John, Ralph, Willis.

Holt, Walter Armand, co. agrl. agt., Okanogan, Wash.

Teach. agr., high-sch., Richland, Wash., 1913–7; princ., 1914–7; present position, 1917—. *b.* near Pullman, Wash., Sept. 6, 1891; *s.* D. M. and Nancy H. (Smith) H.; reared in country; *m.* Blanche E. Clements, Dec. 23, 1916; *c.* Betty Jane. B.S., Wash. State Coll., 1913. Sigma Nu; Alpha Zeta.

Holtzclaw, Hanan H., sec. Army Y. M. C. A., Poly. Inst. Training Detachment, Auburn, Ala.

Asst. agrl. educ., Univ. Ark., 1909–10; prof. an. husb. and supt. farm, State Sch., Magnolia, Ark., 1910–3; prof. an. husb. and supt. live-stock and dairying, State Sch., Russellville, 1913–6; agt. Childress Co., Tex., 1916–7; agt. Hall Co., Memphis, Tex., Jan.–Apr., 1918. *b.* Vineyard, Ark., Dec. 13, 1886; *s.* Henry H. and Izora H.; reared on farm; *m.* Georgia Goodwin Short, 1910; *c.* Henry G. B.S.A., Univ. Ark., 1909; M.S., 1910.

Hood, George William, assoc. prof. hort., Univ. Neb., Lincoln, Neb.

Instr. hort. and in chg. conservatories, Ohio State Univ., 1907–9; asst., U. S. Dept. Agr., 1910–1; instr. hort., Mich. Agr. Coll., 1911–3; present position, 1913—. *Auth.*: Laboratory Manual of Horticulture, 1915; Practical School and Home Gardens, 1916; Farm Horticulture, 1918. *b.* Lancaster, O., Jul. 30, 1886; *s.* James T. and Elizabeth (Hodgison) H.; *m.* Mildred M. Neimeier, Jul. 7, 1915. B.S., Ohio State Univ., 1910; M.S., 1914. Sigma Kappa Zeta.

Hook, Wallace Henry, co. agrl. agt., Neosho, Mo.

Dir. Agrl. High-Sch. and Exp. Farm, Ridgely, Md., 1912–4; farm bur. manag., Ulster Co., N. Y., 1914–8; poultry farmer, Esopus, N. Y., 1916–8; agt. Newton Co., Mo., 1918—. *b.* near Bridgewater, N. Y., Mar. 22, 1886; *s.* Wm. Felton and Francis Alvira (Hopkins) H.; reared on farm; *m.* F. Faith Kimball, Apr. 28, 1913. B.S., Cornell Univ., 1912.

Hooper, John Julian, prof. an. husb., Univ. Ky., Lexington, Ky.

Asst., Tex. Exp. Sta., 1902; asst. prof. agr., Univ. Ky., 1906–8; prof. an. husb., 1909—. Chg. Horse Improvement Bur., Ky. State Racing Comn.; first vice-pres. Am. Army Horse Assoc.; dir. Blue Grass Fair; supt. dairy cattle, State Fair. *Ed.*, dairy dept., Inland Farmer. Studied European agr., 1911. *b.* Colorado, Tex., Mar. 16, 1882; *s.* John Randolph and Julia Emma (Felker) H. B.S. Tex. A. & M. Coll., 1901; M.S.A., Ia. State Coll., 1907.

Hoopingarner, Roy Gabriel, co. agrl. agt., Crystal Falls, Mich.

Instr. farm crops, Mich. Agr. Coll., 1911–2. *b.* Gilead, Mich., Aug. 31, 1882; *s.* Geo. B. and Isabelle (Shank) H.; reared on farm. B.S., Mich. Agr. Coll., 1909.

Hoover, Jessie May, prof. home econ., Univ. Ida., Moscow, Ida.

Preceptress Sch. Agr., S. D. State Coll., 1907–9; prof. home econ. and dean of women, N. D. Agr. Coll., 1909–12; present position, 1912—. Chm. Home Econ. Div., Inland Empire Teacher's Assoc., 1915–8; chm. Food Conservation Women's Com., Council of Defense for Ida., 1917–8; sec. Ida. Coll. Women's Work, U. S. Food Administration, 1918; chm. home econ., State Fed. of Women's Clubs, 1914–7. *b.* Seneca, Kans.; *d.* D. F. and Martha A. (Tomson) H.; reared in town and on farm. B.S., Kans. State Agr. Coll., 1905. Phi Kappa Phi; Phi Upsilon Omicron.

Hopkins, Andrew Delmar, for. ent. in chg. for. insect invests., Bur. Ent., U. S. Dept. Agr., Washington, D. C.

Ent., W. Va. Exp. Sta., 1890–1902; vice-dir., 1897–1902; prof. econ. ent., W. Va. Univ., 1896–1902; present position, 1902—. Fellow A. A. A. S.; Am. Geog. Soc. Vice-pres. Ent. Soc. Am.; vice-pres. Assoc. Econ. Ent., 1900; pres. 1901; 1st pres. W. Va. Acad. Sci.; pres. Ent. Soc. Washington; vice-pres. Washington Acad. Sci.; 1st pres. Soc. for Adv. For. Ent. in Am. Farmer and breeder sheep and cattle, 1877—; developed over 40 varieties of timothy. *b.* Jackson Co., W. Va., Aug. 20, 1857; *s.* Andrew Evans and Miriam Florence (Evans) H.; reared on farm; *m.* Adealia S. Butcher, Nov. 18, 1880. Hon. Ph.D., W. Va. Univ., 1893.

Hopkins, Cyril George, prof. agron. and chief agron. and chem. and vice-dir. Exp. Sta., Univ. Ill., Urbana, Ill.

Asst. chem., S. D. State Coll., 1890–2; asst. chem., Cornell Univ., 1892–3; asst. chem. and acting prof. pharmacy S. D. State Coll., 1893–4; chem., Ill Exp. Sta., 1894—; vice-dir., 1903—prof. agron., Univ. Ill., 1900—; dir. agr.; Southern Settlement and Development, Organization, 1913–4. Fellow A. A. A. S. Inventor of Hopkins' condenser, Hopkins' distilling tube, Hopkins' limestone tester. Pres. Assoc. Off. Agrl. Chem.; chm. Exp. Sta. Sect., Assoc. Am. Agrl. Colls. and Exp. Stas. Traveled in Europe. *Auth.:* Soil Fertility and Permanent Agriculture, 1910; The Story of the Soil, 1910; The Farm That Wont Wear Out, 1913. *b.* near Chatfield, Minn., Jul. 22, 1866; *s.* Geo. Edwin and Caroline (Cudney) H.; reared on farm; *m.* Emma Mathilda Stelter, May 11, 1893; *c.* Jules Edwin, Karl Stetler. B.S., S. D. State Coll., 1890; M.S., Cornell Univ., 1894; Ph.D., 1898; studied Goettingen Univ., Germany, 1899–1900. Sigma Xi.

Hopper, Herbert Andrew, prof. an. husb., Cornell Univ., Ithaca, N. Y.

Instr. dairy husb., Univ. Ill., 1903–7; ext. dairy husb., Purdue Univ., 1907–8; asst. prof. dairy husb., Univ. Calif., 1908–11; asst. prof. an. husb., Cornell Univ., 1911–3; prof., 1913—. Contributing ed., Black and White Record. Dairy farmer and breeder, 1911—. *b.* Ithaca, N. Y., June 10, 1879; *s.* Andrew P. and Arvilla (Peckham) H.; reared on farm; *m.* Portia E. Gilkerson, Jul. 31, 1907; *c.* Elizabeth, Portia Arvilla, Herbert A. Jr. B.S.A., Cornell Univ., 1903; M.S., Univ. Ill., 1907. Sigma Xi.

Hoppert, Ernest H., assoc. prof. ext. hort., Univ. Neb., Lincoln, Neb.

b. Sheboygan, Wis., Jan. 19, 1891; *s.* C. W. and Sophia (Kauffman) H.; reared in city and country; *m.* Clara Hauschildt, June 20, 1917; *c.* Marion Ruth. B.S.A., Univ. Wis., 1914. Alpha Zeta.

Hopt, Erwin, prof. agron., Univ. Neb., Lincoln, Neb.

Exp. Sta., N. Platte, Neb., 1909; present position, 1909—. Treas. Neb. Corn

Improvement Assoc. Farm operator, 1887–90. *Auth.:* (with Spafford) Laboratory Exercises in Principles of Agriculture, 1914. *b.* Hamburg, Ia., Jan. 17, 1876; *s.* Chas. and Albina (Schnirel) H.; reared in town and country; *m.* Eva S. Burner, Jul. 25, 1905; *c.* Helen Ruth, Erma Eveline, Carl Erwin. B.S.A., Univ. Neb., 1909. Sigma Xi; Alpha Zeta.

Horne, William Titus, assoc. prof. plant path., Univ. Calif., Berkeley, Calif.

Instr. bot., Neb. Wesleyan Univ., 1898–1900; Sch. Agr., 1899–1900; asst. plant path., Cuban Exp. Sta., 1904–7; chief dept. plant path., 1907–9; asst. prof. plant path., Univ. Calif., 1909–14; assoc. prof., 1914—. Fellow A. A. A. S. Sec. Am. Phytopathological Soc., Pacific Div. *b.* Ill., Nov. 8, 1876; *s.* Wm. Henry and Ellen Alzora (Titus) H.; reared on farm; *m.* Mary Tracy Earle, Jul. 1, 1906. B.S., Univ. Neb., 1898; fellow bot., Columbia Univ., 1903–4.

Horton, John Raymond, sci. asst., U. S. Bur. Ent., 126 S. Minneapolis Ave., Wichita, Kans.

Asst. ent., Utah Agr. Coll., 1906–9. *b.* Ogden, Utah, Aug. 4, 1882; *s.* Joseph Holly and Mary Ruth (Davidson) H.; *m.* Aura Baker, Jul. 23, 1910; *c.* John Ziemer, Dorothy. B.S., Utah Agr. Coll., 1909. Phi Kappa Iota.

Hosmer, Ralph Sheldon, prof. for., Coll. Agr., Cornell Univ., Ithaca, N. Y.

Asst. Div. Soils, U. S. Dept. Agr., 1896–8; field asst., Bur. For., 1898–1903; instr., Yale For. Sch., 1901–2; supt. for., Hawaii, 1903–14; regent Coll. of Hawaii, 1907–14; prof. for. and head dept., Cornell Univ., 1914—. Chm. Conservation Comn. of Territory of Hawaii, 1908–14. Del. from Hawaii to Nat. Irrig. Congress, 1907. Treas. Soc. Am. Foresters, 1902–3; mem. Exec. Com., 1915; mem. Exec. Com., N. Y. State For. Assoc., 1915; mem. N. Y. State Wood Fuel Advisory Comn. *b.* Deerfield, Mass., Mar. 4, 1874; *s.* Geo. Herbert and Julia West (Sheldon) H.; reared in city; *m.* Jessie Nash Irwin, Dec. 30, 1913; *c.* David Irwin, Jane Sheldon. B.A.S., Harvard Univ., 1894; M.F., Yale Univ., 1902.

Hottes, Alfred Carl, asst. prof. flor., Ohio State Univ., Columbus, O.

Asst. biol., Cornell Univ., 1913–4; instr. hort., 1914–6; present position, 1916—. With A. T. DeLaMare Pub. and Ptg. Co., New York City, summer, 1916–7. Pres. Columbus Florists' Assoc.; sec. Columbus Hort. Soc. Chg. trial grounds Am. Gladiolus Soc., Ithaca, 1913–6. *Auth.:* Commercial Plant Propagation, 1917; revisor Oliver's Plant Culture, 1917. Contributor to Garden Guide. *b.* Ithaca, N. Y., Mar. 16, 1891; *s.* Chas. F. and Mary A. (Bergman) H.; reared in small city. B.S., Cornell Univ., 1913; M.S.A., 1914. Sigma Xi.

Houghton, Frederick Lowell, sec. Holstein-Friesian Assoc. of Am., Brattleboro, Vt.

Lawyer, Boston, 1884–95; Vt., 1896—. Mem. Vt. House of Rep., 1900–4. Trustee N. E. Agrl. Soc.; vice-pres. Valley Fair Assoc. *Auth.:* Holstein-Friesian Cattle — A History of the Breed and Its Development in America, 1887; Holstein-Friesian Year Book, 1900–12; Holstein-Friesian Herd Book, 1894–1915. *b.* Brookline, Mass., Aug. 24, 1859; *s.* Chas. and Edna Rebecca (Lowell) H.; *m.* Rosmarie MacCallum, June 20, 1896; (d. 1899). LL.B., Boston Univ. Sch. of Law, 1884.

House, Edward B., prof. civil and irrig. engin., Colo. Agr. Coll., Fort Collins, Colo.

Asst. math., Colo. Agr. Coll., 1896; prof. math., 1896–1905; assoc. prof. irrig. engin., 1905–10; prof. civil and irrig. engin., 1910—. *b.* Evans, Colo., Feb. 27, 1872; *s.* E. P. and C. H. (Bishop) H.; reared on farm and small town; *m.* Harriet Chandler, 1898; *c.* Edward C., Margaret, Joe C. B.S., Univ. Mich., 1896; M.S., Colo. Agr. Coll., 1904.

Householder, Glen M., co. agrl. agt., Ladysmith, Wis.

Foreman, Richland Co. Poor Farm, 1912; teach. agr., high-sch., Dawson, Minn., 1914–6; Spring Valley, 1916–7; present position, 1917—. *b.* Richland Co., Wis., Jan. 12, 1890; *s.* H. C. and Alice (Francis)H.; reared on farm; *m.* Erma Dieter, 1911; *c.* Howard C., Helen, John D. B.S., Univ. Wis., 1914.

Houston, David Franklin, Secretary of Agriculture, U. S. Dept. Agr., Washington, D. C.

Adj. prof. political sci., Univ. Tex., 1894–7; assoc. prof., 1897–1900; prof., 1900–2; dean faculty, 1899–1902; pres.

Tex. A.&M. Coll., 1902–5; pres. Univ. Tex., 1905–8; chancellor Washington Univ., St. Louis, 1908–17; sec. agr., 1913—. *b.* Monroe, N. C., Feb. 17, 1866; *s.* Wm. Henry and Cornelia Anne (Stevens) H.; *m.* Helen Beall, Dec. 11, 1895. A.B., S. C. Coll., 1887; A.M., Harvard Univ., 1892; LL.D., Tulane, 1903, Univ. Wis., 1906, Yale Univ., 1913, Univ. Mo., 1914, Harvard Univ., 1914.

Hovensten, Albert, supt. South East Dem. Farm and Exp. Sta., Waseca, Minn.

Sec. Waseca Co. Crop Improvement Assoc., sec. Waseca Co. Farm Club Fed. *b.* Jewell, Ia., Nov. 8, 1885; *s.* Thore and Julia (Flettrs) H.; reared on farm; *m.* Astaid Roswald, June 23, 1915; *c.* Moris. Student Jewell Lutheran Coll., Univ. Minn.

Howard, D. C., co. agrl. agt., St. Helens, Ore.

Instr. dairy production, Ore. Agr. Coll., 1914–7; present position, 1917—. *b.* Salem, Ore., Jan. 14, 1888; *s.* Joseph Ethelston and Harriett Lucile (Barrows) H.; reared on farm; *m.* Mabel Etta Feathers, Aug. 9, 1916. B.S.A., Ore. Agr. Coll., 1914. Gamma Sigma Delta.

Howard, Leland Ossian, chief Bur. Ent., U. S. Dept. Agr., Washington, D. C.

Asst. ent., Bur. Ent., 1878–94; chief, 1894—; curator dept. insects, U. S. Nat. Museum, 1895—; consulting ent., U. S. Public Health Serv., 1904—. Trustee Cornell Univ., 1900–5. Fellow and permanent sec. A. A. A. S. Pres. Assoc. Econ. Ent., 1894; Biol. Soc., Washington, 1897–8; Washington Acad. Sci., 1916. Mem. Amer. Phil. Soc., and Nat. Acad. Sci.; hon. mem. many foreign scientific organizations. *Auth.:* Mosquitoes — How They Live, etc., 1901; The Insect Book, 1902; The House Fly-Disease Carrier, 1911; monograph of the mosquitoes of North and Central America and the West Indies (with H. G. Dyar and F. Knob), 4 vols., 1912–7. *b.* Rockford, Ill., June 11, 1857; *s.* Ossian Gregory and Lucy Dunham (Thurber) H.; reared in city; *m.* Dora Clifton, Apr. 28, 1886; *c.* Lucy Thurber, Candace Leland, Janet Moore. B.S., Cornell Univ., 1877; M.S., 1883; Ph.D., Georgetown Univ., 1896; M.D., George Washington Univ., 1911; LL.D., Univ. Pittsburg, 1911. Delta Upsilon.

Howard, Walter Lafayette, prof. pom., Univ. Calif., Davis, Calif.

Asst. hort., Univ. Mo., 1901–3; instr., 1903–5; asst. prof., 1905–8; prof., 1908–15; present position, 1915—. Sec. Mo. State Bd. Hort., 1908–12; asst. sec. Am. Soc. for Hort. Sci., 1914; pres., 1915. Traveled in Europe, Africa and Cuba. *Auth.:* Propagation of Trees and Plants, 1905; The Home Garden, 1905; Uses of Hotbeds and Coldframes, 1907. City ed., Springfield, Mo., Leader-Democrat, 1894–5. *b.* near Springfield, Mo., May 12, 1872; *s.* Henry T. and Nancy E. (Cooper) H.; reared on farm; *m.* Maybelle Cooper, June 25, 1908; *c.* Thomas Henry, Robt. Cooper, Edwin Lewis, Walter Egner. B.S. and B.Agr., Univ. Mo., 1901; M.S.A., 1903; Ph.D., Univ. Halle-Wittenberg, 1906. Sigma Xi; Gamma Sigma Delta; Sigma Kappa Zeta.

Howat, Robert John, co. agrl. agt., Marshall, Mo.

Sec. Mo. Assoc. of Co. Farm Burs., 1915–7; co. food administrator for Saline Co.; sec. Co. Council of Defense. *b.* Welton, Ia., Oct. 11, 1893; *s.* John and Louisa (Bowcott) H.; reared on farm; *m.* Frances E. Wilson, Dec. 27, 1916. B.S.A., Univ. Mo., 1915. Gamma Sigma Delta.

Howe, Frank William, dean Joseph Slocum Coll. of Agr., Syracuse Univ., Syracuse, N. Y.

Teach. rural schs., Mich., 1885–7; ed. Christian Educator, Battle Creek, 1897–9; princ. Petoskey high-sch., 1900–2; supt. schs., Mancelona, Charlevoix, Mich. and Maumee, O., 1902–7; instr. farm crops, Mich. Agr. Coll., 1908; asst. agrl. educ., U. S. Dept. Agr., 1909–10; specialist in agrl. educ., N. Y. State Educ. Dept., 1910–2; present position, 1912—. Mem. N. Y. Comn. on Country Boys Leaving Home; mem. N. Y. State Council of Farms and Markets. *b.* Kent Co., Mich., Apr. 19, 1865; *s.* Joseph L. and Lovina C. (Cryderman) H.; reared on farm; *m.* Edith M. Brown, 1902; *c.* Milward L., Allison J., Douglas K., Vernon S., E. Ronald. A.B., Univ. Mich., 1893; M.S., Mich. Agr. Coll., 1909.

Hoy, Benjamin, asst. hort., Vernon, B. C.

b. Fall River, Mass., Feb. 12, 1888; *s.* James and Mary J. H.; reared on

farm. B.S.A., Ont. Agr. Coll. and Toronto Univ., 1909.

Hubbard, William Woodbridge, supt. Dominion Expl. Sta., Fredericton, N. B.
Sec. and teach., Sussex Dairy Sch., 1893–5; ed., Maritime Farmer, Sussex, N. B., 1895–1901; ed., Maritime Homestead, Halifax, 1901–3; agrl. agt., Canadian Pacific Ry., 1902–4; present position, 1912—. Mem. and sec. Royal Agrl. Comn. of N. B., 1908–9; sec. for agr. of N. B. and supt. farmers' insts., 1909–12. Sec. Provincial Farmers' Assoc., 1888–93; sec. Farmers' and Dairymen's Assoc. of N. B., 1893–1904; sec. Maritime Stock Breeders' Assoc., 1896–1903. *b.* Burton, N. B., Aug. 4, 1866; *s.* F. Ambrose and Susan H. (Wilmot) H.; reared on farm; *m.* A. L. Gregory, Aug. 17, 1893; *c.* Gerald A. Educ. Ont. Agr. Coll.

Hubbell, Howard, co. sec. Inter. Com. Y. M. C. A., Forsythe Bldg., Atlanta, Ga.
b. Makanda, Ill., Sept. 9, 1874; *s.* W. H. and Elizabeth (DuBois) H.; reared on farm; *m.* Belle T. Tevis, Oct. 27, 1904; *c.* Sallie Belle. B.S., N. D. Agr. Coll., 1900; B.A.S., Y. M. C. A. Coll., Chicago, 1908; grad. student Univ. Neb., 1 yr.

Hubert, Benjamin Franklin, dir. agr., State A. & M. Coll., Orangeburg, S. C.
Prof. agr., Americus Inst., Ga., 1909–10; present position, 1912—. Dir. State Fair Assoc. Head ext. serv. and general dir. coll. farm. Special agt., U. S. Food Administration, 1918—. *Ed.*, The Palmetto Farmer; agrl. ed. The Southern Indicator, Columbia, S. C., 1913; Peoples Recorder, Orangeburg, 1914–5. *b.* White Plains, Ga., Dec. 25, 1883; *s.* Zack and Camilla (Hillman) H. (col.); reared on farm. A.B., Morehouse Coll., 1909; B.S.A., Mass. Agr. Coll., 1912.

Hudelson, Robert R., asst. prof. soils, Univ. Mo., Columbia, Mo.
Asst. agron., Univ. Mo., 1912–3; instr., 1913–5; asst. prof., 1915—. 1st. Lieut. Field Artillery, Nat. Army, 1917—. *b.* Chambersburg, Ill., Feb. 20, 1886; *s.* Henry C. and Kathryn (Brook) H.; reared on farm. B.S., Ill. State Normal, Univ. Ill., 1912; A.M., Univ. Mo., 1915. Sigma Xi.

Hudson, J. Frank, co. agrl. agt., Towson, Md.
b. Rootstown, O., Aug. 21, 1879; *s.* Herbert F. and Hettie M. (Clark) H.; reared on farm; *m.* Maude M. Meloy, Sept. 3, 1901; *c.* Rollin C., Edward E. Grad. short-course, Ohio State Univ., 1901.

Huey, Ray, teach. agr., Spencerport, N. Y.
b. Tyrone, N. Y., Jan. 16, 1887; *s.* Joseph and Jane (Henderson) H.; reared on farm. B.S., Cornell Univ., 1914. Kappa Phi.

Hughes, Cecil A., co. agrl. agt., Macon, Miss.
Farm manag., Univ. Ill., 1914–5; farmer and teach. ext. schs., 1915–6; agt. Monroe Co., W. Va., 1916–8; agt. Noxubee Co., Miss., 1918—. *b.* Hugo, Ill., Apr. 23, 1889; *s.* Stephen A. D. and Frances P. (Lemmon) H.; reared on farm; *m.* Myrtle Rehner, Dec. 22, 1915. B.S., Univ. Ill., 1914. Alpha Zeta.

Hughes, Elmer Howard, asst. to dean and dir. and supt. short courses, Univ. Mo., Columbia, Mo.
Asst. an. husb., Univ. Mo., 1913–4; instr., 1914–5; asst. prof., 1915–7; present position, 1917—. Farm manag., 4 yrs. *b.* Rewey, Wis., Apr. 8, 1887; *s.* John T. and Sarah (Rundell) H.; reared on farm; *m.* Beulah Baker, Jul. 9, 1912. B.S.A., Univ. Wis., 1912; A.M., Univ. Mo., 1916. Gamma Sigma Delta; Alpha Zeta.

Hughes, Harold DeMatt, prof. farm crops, Ia. State Coll., Ames, Ia.
Instr. agron., Univ. Mo., 1908–10; prof. farm crops, Ia. State Coll. and chief in Exp. Sta., 1910—. *b.* Antioch, Ill., Jan. 16, 1882; *s.* Hugh D. and Jessie (Yule) H.; reared on farm; *m.* Lulu Lego, 1909; *c.* John, Daniel, Alice. B.S., Univ. Ill., 1907; M.S.A., Univ. Mo., 1908. Sigma Xi; Alpha Zeta; Phi Beta Phi.

Hughes, Hugh John, ed. Farm Stock and Home, 2101 Dudley Ave., St. Paul, Minn.
Teach. high-sch. and coll., 10 yrs.; farmer, N. D., 1901–7; present position, 1910—. Chm. State Marketing Com. of Comn. Public Safety. Vice-pres. Minn. Live-Stock Assoc. Mem. 1st Minn. Efficiency Comn. *b.* Milwaukee, Wis., Aug.

4, 1872; *s.* Hugh J. and Sarah E. (Lloyd) H.; reared on farm; *m.* Alsie Vivian Sackett, 1898; *c.* Frances Eleanor, Winnifred Eunice, Leslie Hugh, Alsie Retta. B.S., Lawrence Coll., 1898; B.S.A., N. D. Agr. Coll., 1909.

Hughes, Mary Mildred, dir. rural educ., Colo. State Normal, Gunnison, Colo.

Teach. psychology, Normal No. 5, Maryville, Mo., 1910–5; present position, 1916—. *b.* Markesan, Wis.; *d.* Wm. Robt. and Margaret (Rummel) H.; reared in town and country. A.B., Univ. Colo., 1908; A.M., 1909. Pi Lambda Theta.

Hulbert, Arthur Mauvah, state club leader, Rutgers Coll., New Brunswick, N. J.

Vice-princ. high-sch., Rutherford, N. J., 1894–5; princ. grammar sch., Dumont, 1895–9; Cresskill, 1900–1; supt. and princ. high-sch., Park Ridge, 1901–17; present position, 1917—. *b.* Brookside, N. J., Sept. 15, 1870; *s.* John F. and Sarah E. (Baird) H.; reared on farm; *m.* Sarah Eva DeHart; *c.* Marguerite D., Katherine E.

Humbert, Eugene Peter, plant-breeder in chg. div., Tex. Exp. Sta., College Station, Tex.

Instr. farm crops, Ia. State Coll., 1906–7; asst. plant-breeding, Cornell Univ., 1908–10; plant physiologist, U. S. Dept. Agr., 1910–1; assoc. biol., Me. Exp. Sta., 1911–2; agron., N. Mex. A.&M. Coll., 1912–6; present position, 1916—. *b.* Corning, Ia., Sept. 1, 1881; *s.* Peter P. and Lucy R. (Mathis) H.; reared on farm; *m.* Ella Clark Adams, Sept. 7, 1909; *c.* Bertha Ellen, Robt. Pierre, John Leroy. B.S.A., Ia. State Coll., 1906; M.S., Cornell Univ., 1908; Ph.D., 1910. Sigma Xi; Phi Kappa Phi; Delta Upsilon.

Hume, Albert Nash, agron., S. D. State Coll. and Exp. Sta., Brookings, S. D.

Instr., Purdue Univ., 1902; Winona Agrl. Inst., 1903; instr., assoc., asst. prof., Univ. Ill., 1903–11; present position, 1912—. Sec. S. D. State Corn and Grain Growers' Assoc. *b.* Plymouth, Ind., Dec. 3, 1878; *s.* Albert Campbell and Mary Elizabeth (Nash) H.; reared on farm and small town; *m.* Anna Ruth Thomson, Jul., 1903; *c.* Albert Thomson, Robt. Arthur, David Lang. B.S.A., Purdue Univ., 1900; M.S., 1902; Ph.D., Goettingen Univ., 1910. Sigma Xi.

Hummel, William Granville, prof. agrl. educ. and head div., Univ. Calif., Berkeley, Calif.

Instr. farm mech. and dairying, Colo. Agr. Coll., 1908; instr. agron. and farm mech., N. Mex. A.&M. Coll., 1908–9; teach. agr., high-sch., Oxnard, Calif., 1909–10; Fresno high-sch. and Junior Coll., 1910–1; instr. agrl. educ., Univ. Calif., 1911–2; asst. prof., 1912–4; assoc. prof., 1914–8; prof., 1918—. On leave 1917–8, acting as agrl. agt. for Fed. Bd. for Voc. Educ., Washington, D. C. *Auth.*: Materials and Methods in High School Agriculture, 1913. *b.* Roberts, Ill., Feb. 19, 1882; *s.* John and Sarah M. (Upson) H.; reared on farm; *m.* Bertha Ella Royce, 1907. B.S., Univ. Ill., 1907; M.S., Univ. Calif., 1912. Phi Delta Kappa; Sigma Pi.

Humpherys, LeGrande Rich, assoc. prof. farm mech., Utah. Agr. Coll., Logan, Utah.

Teach. Fielding Acad., Paris, Ida., 1906–11; instr. farm mech., Utah Agr. Coll., 1912–3; asst. prof., 1913–7; assoc. prof., 1917—. *b.* Paris, Ida., June 28, 1884; *s.* Hyrum T. and Caroline W. (Rich) H.; reared on farm; *m.* Nettie Wright, Sept. 2, 1908; *c.* Russell, Dean, Max. B.S., Utah Agr. Coll., 1912.

Humphrey, George Colvin, prof. an. husb., Univ. Wis., Madison, Wis.

From instr. to prof. an. husb., Univ. Wis., 1901—. *b.* Palmyra, Mich., Feb. 13, 1875; *s.* Geo. and Sarah C. (Colvin) H.; reared on farm; *m.* Eva Doty, June 25, 1902. B.S., Mich. Agr. Coll., 1901.

Humphrey, Harold Nelson, co. agrl. agt., Corning, N. Y.

Sci. asst., Off. Farm Manag., U. S. Dept. Agr., 1911–7; States Relations Serv., 1917–8; agt. Steuben Co., N. Y., 1918—. *b.* Roxbury, N. Y., June 1, 1887; *s.* Daniel S. and Oliva A. (Beardslee) H.; reared on farm; *m.* Leona Jane Simmons, Dec. 4, 1913. B.S.A., Cornell Univ., 1911. Sigma Phi Sigma.

Hungerford, Charles William, sci. asst. cereal invests., U. S. Dept. Agr., Corvallis, Ore.

Princ. high-sch., Houston, Minn., 1910–1; supt., 1911–3; asst. bot., Univ.

Wis., 1913–4; asst. plant path., 1914; present position, 1915—. *b.* Fillmore Co., Minn., Feb. 26, 1885; *s.* J. B. and Alice (Moore) H.; reared on farm; *m.* Ruth Partridge, June 11, 1913; *c.* Kenneth Eugene. B.S., Upper Ia. Univ., 1910; M.S., Univ. Wis., 1915. Sigma Xi.

Hungerford, DeForest, asst. prof. agron., Univ. Ark., Fayetteville, Ark.

Grad. asst. and instr. soils, Univ. Minn., 1910–4; present position, 1915—. *b.* Randolph, Kans., Dec. 9, 1887; *s.* Geo. H. and D. E. C. (Secrest) H.; reared on farm; *m.* Ruth Bennett, Dec. 22, 1916; *c.* Ruth Caroline. B.S., Kans. State Agr. Coll., 1910; M.S., Univ. Minn., 1914. Alpha Chi Sigma.

Hungerford, John D., asst. prof. nutr. chem., N. Mex. A.&M. Coll., State College, N. Mex.

b. Randolph, Kans., Dec. 9, 1893; *s.* Geo. H. and Cara (Secrest) H.; reared on farm and in city. B.S., Kans. State Agr. Coll., 1915.

Hunn, Chester Jermain, hort., Ithaca, N. Y.

Asst. hort., Hawaii Exp. Sta., 1908–13; acting hort. 1913–4; prof. hort., Univ. Porto Rico, 1914–6. Exploration of Haiti as trop. agrl. expert, 1917. *b.* E. Bloomfield, N. Y., Mar. 14, 1884; *s.* Chas. Edward and Elizabeth (Moffat) H.; reared in town; *m.* Jessie Sevier McCormick, Jul. 7, 1910. B. S. A., Cornell Univ., 1908. Lambda Chi Alpha.

Hunnicutt, George Frederick, farmer, and ed. Southern Cultivator, Hapeville, Ga.

Compiler Southern Crops, 1908. *Auth.*: David Dickson's and James M. Smith's Farming, 1910. *b.* Coweta Co., Ga., Oct. 20, 1862; *s.* Jas. B. and Emily Jane (Page) H.; reared on farm; *m.* May Bernard; 2d, Mary W. Middlemas; *c.* Jas. Bernard, Wm. Lytlleton, Dorothy May. A.B., Univ. Ga., 1883. Delta Tau Delta.

Hunt, Benjamin W., farmer and banker, Eatonton, Ga.

Ex.-pres. Ga. Bankers' Assoc.; vice-pres. Ga. Hort. Soc.; chm. Bd. Trustees, 8th Distr. Ga. State Agrl. Sch. Traveled in Europe and Mexico. *b.* Chappaqua, N. Y.; *s.* Benj. W. and Mary (Quinby) H.; reared on farm; *m.* Louise Prudden, May 18, 1876.

Hunt, Ralph Edward, prof. an. husb., Va. Poly. Inst., Blacksburg, Va.

Instr. an. husb. in short course, Penn. State Coll., 1911–2; instr. an. husb., W. Va. Univ., 1912–3; assoc. prof., Va. Poly. Inst., 1914–8; prof., 1918—. *b.* Marysville, Kans., Mar. 13, 1889; *s.* John O. and Fannie (Peters) H.; reared on farm; *m.* Ena M. Smith, Sept. 25, 1912; *c.* Dorothy Ena. B.S.A., Kans. State Agr. Coll., 1911; M.S., Va. Poly. Inst., 1916. Sigma Nu.

Hunt, Thomas Forsyth, prof. agr., dir. Exp. Sta. and dean Coll. Agr., Univ. Calif., Berkeley, Calif.

Asst. to Ill. state ent., 1885–6; asst. agr., Univ. Ill., 1886–8; asst. agrst., Ill. Exp. Sta., 1888–91; prof. agr., Penn. State Coll., 1891–2; prof. agr., Ohio State Univ., 1892–1903; dean Coll. Agr., 1896–1903; prof. agron., Cornell Univ., 1903–7; dean Sch. Agr. and dir. Exp. Sta., Penn. State Coll., 1907–12; present position, 1912—. Pres. Soc. Promotion Agrl. Sci., 1907–9. *Auth.*: (with Morrow) Soils and Crops of the Farm, 1895; History of Agriculture and Rural Economics, 1899; The Cereals in America, 1904; How to Choose a Farm, 1906; The Forage and Fiber Crops in America, 1907; The Young Farmer, 1913; (with Burkett) Soils and Crops, 1913; (with Burkett) Farm Animals, 1914. *b.* Ridott, Ill., Jan. 1, 1862; *s.* Thos. Marshall and Mary A. (Kirk) H.; *m.* Juniata G. Campbell, Aug. 22, 1888; *c.* Theodore Morrow, Marion Juliet. B.Sc., Univ. Ill., 1884; M.Sc., 1892; D.Agr., 1903; D.Sc., Mich. Agr. Coll., 1907. Sigma Xi.

Hunter, Edwin M., co. agrl. agt., Purcellville, Va.

Princ. high-sch., Galax, Va., 1910; Dublin Inst., 1911; 9th Cong. Distr. Agr. High-Sch., 1912–3; agt. Loudoun Co., 1914—. *b.* Alexander, N. C., Apr. 22, 1884; *s.* J. B. and Alice Douglas (Wild) H.; reared on farm; *m.* Lolo Sarah Filson, Sept. 6, 1910; *c.* Clara Alice, Elizabeth Wild, Edwin M. Jr. A.B., Emory & Henry Coll., 1910; grad. student Geo. Peabody Coll. for Teachers, 1914.

Hunziker, Otto Frederick, manag. manufacturing dept. and dir. research lab., Blue Valley Creamery Co., Chicago, Ill.

Asst. path. bact. and chg. dairy bact.,

Cornell Univ., 1901–2; milk expert, Scranton Condensed Milk Co., Ellicottville and Springville, N. Y., 1902–5; instr. dairying, Purdue Univ., 1905–6; assoc. prof., 1906–7; prof. and chief dairy dept., 1907–17; present position, 1917—. Pres. Am. Assoc. Dairy Sci., 1910–2; mem. exec. com., Ind. State Dairy Assoc., Ind. Manufacturers of Dairy Products; dir. Nat. Dairy Council. Adv. to condensed milk factories in Canada, Australia, New Zealand, Germany, Japan, 1909–17. Del. from Am. Assoc. Dairy Sci. and U. S. Dept. Agr. to Inter. Dairy Congress, Stockholm, Sweden, 1911. *Auth.:* Manufacture of Condensed Milk and Milk Powder, 1914; rev. ed., 1918; Butter, 1918. *b.* Zurich, Switzerland, Dec. 25, 1873 (naturalized 1904); *s.* Otto Carl and Louise (Pupikofer) H.; reared in country; *m.* Florence Belle Burne, 1905; *c.* Thelma Belle, Florence Louise, Karl Otto, Walter Burne, Isabelle Mary, Otto F. Jr. Grad. Agr. Coll., Zurich, 1892; Bryant and Stratton Business Coll., Providence, R. I., 1896; B.S., Cornell Univ., 1900; M.S., 1901. Sigma Xi; Alpha Zeta; Gamma Alpha.

Hurd, Archibald C., co. sec. Y. M. C. A., White River Junction, Vt.

Sec. and manag. first New England Farm Bur.; dir. state agrl. exhibits; dir. state voc. expos. Conducted first county wide rural sch. survey, 1910; founded Camp Billings, 1906 and Windsor Co , Vt., Annual Play Festival, 1906. *b.* Pawling, N. Y., Jul. 20, 1881; *s.* John and Mittie A. (Waite) H.; reared in town and country; *m.* Cornelia P. Minkler, Sept. 4, 1905; *c.* Allan Campbell.

Hurd, Calvin J., co. agrl. agt., Roseburg, Ore.

Mem. Ore. Legislature, 1913. *b.* Floyd Co., Va., Mar. 23, 1865; *s.* Samuel and Mary E. (Kronk) H.; reared on farm; *m.* Eva R. Powell, May 12, 1888.

Hurd, William Daniel, dir. ext. serv., Mass. Agr. Coll., Amherst, Mass.

Teach. math., high-sch., Lansing, Mich., 1899–1902; prof. hort., Sch. Agr. and Hort., Briarcliff Manor, N. Y., 1902–3; prof. agr., Univ. Me., 1903–6; dean Coll. Agr., 1906–9; present position, 1909—. Fellow A. A. A. S. Pres. N. E. Fed. Rural Progress; pres. ext. Sect., Am. Assoc Agrl. Colls. and Exp. Stas. *b.* DeWitt, Mich., Dec. 19, 1875; *s.* Edgar and Elizabeth (Appleton) H.; reared on farm; *m.* Sarah Belle Cooper, Dec. 31, 1902. B.S., Mich. Agr. Coll., 1899; M. Agr., 1908. Alpha Zeta; Phi Kappa Phi; Phi Gamma Delta.

Husmann, George C., pom. in chg. viticultural invests., U. S. Dept. Agr., Washington, D. C.

General foreman, Vina vineyards and winery of Stanford Univ., Vina, Calif., 1887–90. Del. to Prof. Foex Memorial, France, Inter. Viticultural Congress. *b.* Hermann, Mo., Apr. 27, 1861; *s.* Geo. and Louise C. (Kielmann) H.; reared on farm; *m.* Ellen W. Dorsett, Feb. 1, 1894. B.S.A., Univ. Mo., 1882; M.S.A., 1885.

Hutcheson, John R., asst. dir. ext., Va. Poly. Inst., Blacksburg, Va.

Foreman expl. plats, Va. Poly. Inst., 2 yrs.; princ. 7th Cong. Distr. High-Sch., Middletown, Va., 2 yrs.; princ. Jones Co. Agr. High-Sch., Ellisville, Miss., 3 yrs.; teach. agr., summer sch., Univ. Va., 3 yrs.; specialist in an. husb., Va. Poly. Inst., 1914–7; present position, 1917—. *b.* Charlotte Court House, Va., Jan. 13, 1886; *s.* Robt. F. and Mary C. (Barksdale) H.; reared on farm; *m.* Eleanor Parrott, Oct. 6, 1917. M.S., Va. Poly. Inst., 1909.

Hutcheson, Thomas Barksdale, prof. agron., Va. Poly. Inst., Blacksburg, Va.

Asst. agron., Va. Exp. Sta., and instr. agron., Va. Poly. Inst., 1908–12; assoc. agron., 1913; assoc. agron., Univ. Minn., 1913–4; present position, 1914—. *b.* Charlotte Court House, Va., Mar. 23, 1882; *s.* Robt. F. and Mary C. (Barksdale) H.; reared on farm; *m.* Rosilie O. Stockard, June 4, 1914; *c.* Rosilie Stockard. B.S., Va. Poly. Inst., 1906; M.S., 1908; M.S.A., Cornell Univ., 1913 Sigma Xi.

Hutchison, Claude Burton, prof. plant-breeding, Cornell Univ., Ithaca, N. Y.

Asst. agron., Univ. Mo., 1908–10; instr., 1910–1; asst. prof., 1911–3; prof., 1913–4; prof. farm crops and chm. dept., 1914–6; present position, 1916—. Sec. Mo. Corn Growers' Assoc., 1910–6. Ext. lect. for Mo. State Bd. Agr. Special attention to breeding of wheat and flax. *b.* Chilli-

cothe, Mo., Apr. 9, 1885; *s.* Wm. M. and Adriana (Smith) H.; reared on farm; *m.* Roxie Ruth Prichard, Dec. 23, 1908; *c.* Helen, Ruth, Elizabeth. B.S.A., Univ. Mo., 1908; M.S.A., Cornell Univ., 1913; M.S., Harvard Univ., 1917. Sigma Xi; Gamma Alpha; Alpha Zeta.

Hutt, William Nicol, state hort., Dept. Agr., Raleigh, N. C.

Asst. to dir. Hort. Socs. in Ont. Dept. of Agr., 1901; prof. hort. and bot., Utah Agr. Coll., 1902–4; prof. hort., Md. Agr. Coll., 1904–6; state hort., N. C., 1906—. Sec. Md. Hort. Soc., 1902–4; pres. Am. Pom. Soc., 1915–7; sec. N. C. Hort. Soc., 1906–18; pres. Nat. Nut-Growers' Assoc., 1914–6. *b.* Niagara Falls, Ont., Apr. 26, 1872 (naturalized 1915); *s.* Frederick A. and Janet D. (Lawson) H.; reared on farm; *m.* Edith M. Palmer, Jul. 1, 1907. B.S.A., Ont. Agr. Coll. and Toronto Univ., 1898.

Hutton, Joseph Gladden, assoc. prof. agron., S. D. State Coll., Brookings, S. D.

Asst. biol., Ind. State Normal Sch., 1898–1900; princ. high-sch., Beardstown, Ill., 1901–3; supt. schs., 1903–8; asst. geol., Univ. Ill., 1908–11; present position, 1911—. Pres. S. D. Acad. Sci., 1917–8. *b.* Monticello, Ind., Nov. 3, 1873; *s.* Wm. H. and Mary J. (Gladden) H.; reared on farm; *m.* Emilie W. Feddersen, June 15, 1904; *c.* Helma Louise, Mary Erne-Jean, Joseph Gladden Jr. B.S., Univ. Chicago, 1908; M.S., Univ. Ill., 1910. Phi Beta Kappa.

Hyde, Clayton Herbert, farmer, Alva, Okla.

Mem. Okla. State Council Defense; mem. State Democratic Campaign Com.; Democratic nominee for Congress, 8th Distr. Okla., 1918. *b.* DeKalb Co., Ill., Jul. 5, 1868; *s.* Herbert H. and Eliza (Kennedy) H.; reared on farm; *m.* Rusha Messmore, June 1896; *c.* Birdie, John, Elmer, Chas., Alice. Student Doane Coll., Crete, Neb.

Hyde, George Byron, farmer, co. agrl. agt. and asst. co. agt. leader, E. Kingston, N. H.

Princ. acad., Swansboro, N. C., 1884–5. Traveled in Mexico and Central America. *b.* Enosburg Falls, Vt., Mar. 1, 1865; *s.* Wm. H. and Rhoda Joan (Brown) H.; reared in town and on farm; *m.* Alettha Coutant Halsted, May 11, 1886; *c.* Geo. E., Chas. H., Rhoda A., L. Spencer. M.D., Atlanta Med. Coll., 1890.

Hyslop, George Robert, prof. farm crops, Ore. Agr. Coll., Corvallis, Ore.

Student asst. agron., Ohio State Univ., 1906–7; grad. asst., 1907–8; instr. agron., Ore. Agr. Coll., 1908–10; asst. prof., 1910–3; assoc. prof. field crops, 1913–6; prof., 1916—. *b.* Deshler, O., Nov. 17, 1884; *s.* Geo. L. and Julia (Moeschler) H.; reared on farm; *m.* Sue C. Walcutt, Aug. 10, 1908; *c.* Sue, Julia, Mary, Geo. L., Wm. W. B.S., Ohio State Univ., 1907. Delta Theta Sigma; Gamma Sigma Delta.

I

Iddings, Edward John, dean of agr. and dir. Exp. Sta., Univ. Ida., Moscow, Ida.

Special agt., Bur. Plant Ind., U. S. Dept. Agr., 1906; asst. to dean of agr., Colo. Agr. Coll., 1907–9; field comnr., Dry-Farming Congress, summer 1909; asst. an. husb., Colo. Agr. Coll., 1909–10; ed. Dry-Farming Congress Bul., summer 1910; princ. Sch. Practical Agr. and asst. an. husb., Univ. Ida., 1910–1; prof. an. husb., 1911–8; vice-dean Coll. Agr., 1911–5; dean, 1915–8; dean of agr. and dir. Exp. Sta., 1918—. Judge live-stock shows and coach stock-judging teams. Mem. bd. of dirs., and vice-pres. Northwest Live-Stock Assoc. Mem. adv. bd., State Fair of Ida. Studied live-stock, Great Britain, summer 1907. *b.* Peru, Ind., Mar. 22, 1879; *s.* John Byron and Mary (Huber) I.; reared on farm; *m.* Maud A. Rowell, June 24, 1908. Student Butler Coll., 1899–1901; B.S.Agr., Colo. Agr. Coll., 1907. Delta Tau Delta.

Ide, Warren Leroy, co. agrl. agt., Bristol Co. Agr. Sch., Segreganset, Mass.

Head farmer, Gardener State Colony, Mass., 5 yrs. *b.* Dudley, Mass., Sept. 7, 1886; *s.* Monroe Wilson and Jenny (Walker) I.; reared on farm; *m.* Ruth Elizabeth Earle, Feb. 24, 1914; *c.* Virginia Elizabeth. B.S., Mass. Agr. Coll. and Boston Univ., 1909.

Ikeler, Kenneth C., assoc. prof. an. husb., chg. live-stock manag., Ia. State Coll., Ames, Ia.

Teaching fellow, Ia. State Coll., 1913–4; beef cattle dem., N. C. Exp. Sta., 1914–5; present position, 1915—. Great Britain, 1917 to import Shorthorn cattle for Car-

penter & Goss, Mansfield, O. *b.* Millville, Pa., Dec. 25, 1889; *s.* Iram Benton and Sarah Elizabeth (Cole) I.; reared on farm. M.E., Pa. Normal Sch., 1909; B.S., Penn. State Coll., 1913; M.S.A., Ia. State Coll., 1914. Alpha Zeta.

[Illingworth, J. F., p. 311.

Ingalls, George Ross, co. agrl. agt., Eau Claire, Wis.

Teach. rural sch., 1905–6; princ. state graded sch., Boyd, Minn., 1906–7; supt. schs., Lac qui Parle Co., Minn., 1907–10; an. husb., Minn. Univ. Farm Sch., Morris, 1910–2; agt. Eau Claire Co., 1912—. Breeder Advanced Register Guernseys, 1915—. *b.* Fillmore Co., Minn., Jul. 13, 1877; *s.* Philo H. and Martha (Newell) I.; reared on farm; *m.* Lydia M. Waidelich, Apr. 3, 1906; *c.* L. Marie, Gretchen Ione, Gladys Ruth, G. Frank. Ph.B., North Western Coll., Naperville, Ill., 1905.

Ireland, Harry A., agrst. reclamation projects, Bur. Plant Ind., U. S, Dept. Agr., Washington, D. C.

Co. agrl. agt., Caldwell, Ida. Dir. Ida. State Dairy Assoc. Spent 2½ yrs. in Philippines in agrl. work. *b.* Bronson, Kans., June 23, 1883; *s.* Wm. H. and Maria (McCool) I.; reared on farm; *m.* Myrtle Kahl, May 27, 1911; *c.* Louise Myrtle, Lucile May. B.S., Kans. State Agr. Coll., 1907.

Irish, Henry Clay, superv. sch. gard., Bd. Educ., St. Louis, Mo.

Asst. hort., S. D. State Coll., 1894; hort. asst., Mo. Bot. Gard., 1894–1902; supt., 1903–12; asst. in chg lands. gard. and flor., Ia. State Coll., 1913–4; present position, 1914—. Mem. Mo. State Bd. Hort., 1912—; pres. Mo. State Hort. Soc., 1916–8. *b.* Rock Co., Wis., Apr. 22, 1868; *s.* Benjamin and Lydia A. (Wood) I.; reared on farm; *m.* Margaret H. Duffey, May 9, 1896; *c.* Marguerite. B.S., S. D. State Coll., 1891; M.S., Ia. State Coll., 1897.

Irwin, John Borland, farmer, and breeder Holstein-Friesian cattle, Sta. F., Minneapolis, Minn.

Dir. Holstein-Friesian Assoc. of Am.; pres. Minn. Live-Stock Breeders' Assoc.; pres. Minn. State Holstein Breeders' Assoc.; pres. Twin City Milk Producers' Assoc. *b.* Richfield, Minn., Feb. 16, 1874; *s.* Everett Ford and Martha (Borland) I.; reared on farm; *m.* Bernice Hennings, 1900; *c.* John B. Jr., Everett H. B.S., Univ. Minn., 1898. Delta Upsilon.

Irwin, Robert, farmer, Telstad, Mont.

State sec. Mont. div., Farmers' Educ. and Coop. Union, 1916–7. Del. to Nat. Convention of Farmers, Washington, 1918. *b.* Ont., Canada, June 17, 1857 (naturalized 1890); *s.* Wm. and Mary A. (Wilson) I.; reared on farm and in town; *m.* Sarah Matilda Lithgow, Mar. 6, 1877; *c.* Victoria, Chas., Wilbert, May, Mary, Isabell.

Israel, Henry, inter. sec. Y. M. C. A., 347 Madison Ave., New York City.

Collaborator Rural Div., U. S. Bur. Educ. In War Zone, 1915–6; mem. Rural Comn. in England. *Ed.*, Rural Manhood. *b.* Philadelphia, Pa., Dec. 23, 1877; *s.* Henry and Mary (Hucke) I.; *m.* Gertrude Wells Hart, June 7, 1905. Student Univ. of N. Y.

Israelsen, Orson Winso, assoc. prof. irrig. and drainage, Utah Agr. Coll., Logan, Utah.

Asst. irrig., Univ. Calif., 1913–5; instr. expl. irrig., 1915–6; present position, 1916—. Del. to Inter. Irrig. Congress, Sacramento, 1915. *b.* Hyrum, Utah, Dec. 25, 1887; *s.* Andrew M. and Bolette (Wilson) I.; reared on farm; *m.* Jennie May Allen, Feb. 24, 1909; *c.* Lettie Ione, Ester Golda. B.S., Utah Agr. Coll., 1912; M.S., Univ. Calif., 1914. Gamma Sigma Delta.

Ives, Frederick Walter, prof. agrl. engin., Ohio State Univ., Columbus, O.

Instr. drawing, Univ. Wis., 1909–10; instr. engin. drawing, Ohio State Univ., 1910–4; instr. agrl. engin., 1914–5; asst. prof., 1915–8; prof., 1918—. *b.* Rubicon, Wis., Nov. 20, 1884; *s.* Geo. W. Washington and Fannie Elizabeth (Smith) I.; reared on farm; *m.* Mary Alberta Parks, June 9, 1911; *c.* Frederick David. B.S , Univ. Wis., 1909.

J

Jaccard, Clarence Roy, co. agrl. agt., Troy, Mo.

Specialist in chg. irrigated gardens and orchard, Ft. Hays Branch Exp. Sta., Kans., 1914–5; prof. agr., 1st Distr. Normal Sch., Kirksville, Mo., 1915–7; agt. Lincoln Co., Mo., 1917—. Chm. dept. agr.,

Mo. State Teachers' Assoc., 1917. *b.* Medoc, Mo., Nov. 11, 1889; *s.* W. W. and Sarah M. (Richardson) J.; reared on farm; *m.* Ruth Bright, June 28, 1915; *c.* Robt. Bright. B.S.A., Kans. State Agr. Coll., 1914.

Jackson, Bush McLanchlin, co. agrl. agt., Monroe, La.
Manag. Ouachita Parish Coop. Shipping Assoc. *b.* Hagood, S. C., Jan. 1, 1894; *s.* James Laval and Mary (Creighton) J.; reared on farm; *m.* Retta Thornton Locke, Aug. 20, 1916. B.S.A., Clemson Agr. Coll., 1914.

Jackson, Cicero Floyd, prof. zool. and ent., N. H. A.&M. Coll., Durham, N. H.
Asst. zool., Ohio State Univ., 1907–8; asst. prof. zool. and ent., N. H. A.&M. Coll., 1908–10; prof., 1910—. *b.* Wolcott, Ind., Sept. 30, 1882; *s.* Wm. F. and Yensi Evangeline (Thomas) J.; reared on farm; *m.* Alma Irene Drayer, June 20, 1905; *c.* Herbert Wm. A.B., DePauw Univ., 1905; M.A., Ohio State Univ., 1907. Sigma Xi.

Jacobs, Peter, minister, Randolph, Ia.
Mem. Epworth League Inst. faculty, 11 yrs.; lect. at insts. Special attention to rural church. *Auth.:* Recreation and Culture, 1914. *b.* Fremont, Neb., Apr. 24, 1875; *s.* Uede C. and Christine Eliza (Ehmpke) J.; reared in town and on farm; *m.* Ednah Lathrop, June 24, 1903; *c.* Maurine, Frieda, Uede. Grad. Garrett Biblical Inst., 1913.

Jacobson, Carl Alfred, prof. agrl. chem., Univ. Nev., Reno, Nev.
Instr. chem., York City high-sch., 1904–7; fellow and research chem., Rockefeller Inst. for Med. Research, N. Y., 1908–9; chief chem., Nev. Exp. Sta. and prof. agrl. chem., 1909—. Fellow A. A. A. S. *b.* Grantsburg, Wis., Jan. 25, 1876; *s.* Carl John and Anna Britta (Asp) J.; reared on farm; *m.* Mary Edna Metzger, June 21, 1906; *c.* Carl Metzger, John David. B.S., Carleton Coll., Northfield, Minn., 1903; M.S., 1907; Ph.D., Johns Hopkins Univ., 1908; studied Cracow, Austria; Geneva, Switzerland; Upsala, Sweden; Halle, Germany, 1911–3. Phi Kappa Phi.

Jacoby, Freeman Steel, prof. poultry husb., Ohio State Univ., Columbus, O.
Instr. poultry husb., Kans. State Agr. Coll., 1910–1; instr., Ohio State Univ., 1911–2; asst. prof., 1912–8; prof., 1918—; special invest., Food Research Lab., summer, 1913; W. Va. Exp. Sta., summer, 1914. Chg. O. Poultry exhibit, Panama-Pacific Expos., 1915. *b.* Bethlehem, Pa., Jan. 10, 1889; *s.* H. S. and Laura L. (Saylor) J.; reared in town and country; *m.* Ruth McManamy, June 1, 1913. B.S.A., Cornell Univ., 1910. Sigma Phi Sigma; Alpha Zeta.

Jaffa, Myer Edward, prof. nutr., Univ. Calif., Berkeley, Calif.
Asst. chem., 10th U. S. Census, 1879–80; asst. agrl. dept., Univ. Calif., 1880–1; asst. chem., Northern Transcontinental Survey, 1881–3; 1st asst. and chem., dept. viticulture, Univ. Calif., 1883–9; 1st asst. chem. chg. agrl. chem., 1889–93; instr. agr., 1893–6; asst. prof. agr. chg. lab. of agrl. chem., 1896—; asst. prof. nutr., 1906; prof., 1908—; special agt. and food expert, U. S. Dept. Agr., 1900. dir. State Food and Drug Lab., 1908–15; consulting nutr. expert, Calif. State Bd. of health, 1915. Del. to Fifth Inter. Congress for Applied Chem., Berlin, 1903. *b.* Sydney, Australia, Oct. 6, 1857 (naturalized 1882); *s.* Henry S. and Rebecca (Marks) J.; reared in city; *m.* Adele R. Solomons, Mar. 21, 1895; *c.* Edward Moss, Aileen Raby. Ph.B., Univ. Calif., 1877; M.S., 1896. Sigma Xi; Alpha Zeta.

Jager, Francis, prof. apiculture, Univ. Minn., University Farm, St. Paul, Minn.
Beekeeper, Minneapolis, 1898–1908; Lake Minnetonka, 1908–16; present position, 1913—. Pres. Nat. Beekeepers' Assoc.; dir. Tri State Honey Exchange. Traveled in Europe. Major and chief Red Cross expedition to Serbia, 1918—. *b.* Austria, Apr. 2, 1869 (naturalized 1889); *s.* Andrew and Catherine (Primositch) J.; reared on farm.

James, Delos Lawrence, asst. in marketing dairy products, Bur. Markets, U. S. Dept. Agr., Washington, D. C.
Dairy expert, Univ. Ill., 1910. *b.* Huntley, Ill., Jan. 22, 1885; *s.* Arlo Lawrence and Margaret Louise (Munshaw) J.; reared on farm; *m.* Edna Emma Walter, June 4, 1913; *c.* Marion Louise, Walter Lawrence. B.S., Univ. Ill., 1909. Sigma Xi; Alpha Zeta.

James, John Ambrose, assoc. prof. agrl. educ., Univ. Wis., Madison, Wis.

Teach. rural and graded schs., and princ. high-sch., 1905–10; supt. Racine Co. Sch. Agr., Rochester, Wis., 1912–4; present position, 1914—. *b.* Livingstone, Wis., Apr. 16, 1884; *s.* Thomas D. and Elizabeth A. (Thomas) J.; reared in small town and on farm; *m.* Mary Ventura Matts, June 18, 1913; *c.* Katherine Ventura. B.S.A., Univ. Wis., 1912; grad. work Columbia Univ. Alpha Zeta.

James, McNeal Cole, prof. agrl. educ., Univ. Ky., Lexington, Ky.

Teach. country sch., Putnam and LaSalle Co., Ill., 1899–1906; princ. John Swaney High-Sch., Putnam Co., Ill., 1906–8; teach. agr. summer sch., Oxford, O., 1909; head. dept. agr., State Normal Sch., Valley City, N. D., 1909–16; agrl. agt., Barnes Co., N. D., 1916–8; present position, 1918—. *b.* Christline, O., Aug. 27, 1877; *s.* Jerry A. and Lucinda (Cole) J.; reared on farm; *m.* Eva Ratekin, Aug. 18, 1909; 2d, Emma Ellingson, Aug. 17, 1916; *c.* Margaret Gertrude, Joseph Ratekin, Alice Winifred. B.S.A., A. B., Univ. Ill., 1909. Sigma Xi; Alpha Zeta.

Jamison, Albert Woodward, asst. supt. agrl. ext., Univ. Ill., Urbana, Ill.

Teach. high-sch., Peoria, Ill., 1906–9; instr., Bradley Poly. Inst., Peoria, 1909–11; asst. prof. and asst. dean, 1911–2; asst. prof. and dean, 1912–3; assoc. in agrl. ext., Univ. Ill., 1913–5; asst. prof., 1915—. Asst. chem., Ill. Sugar Ref. Co., 1899–1900. *b.* Peoria, Ill., May 31, 1874; *s.* Chas. Albert and Mary Catherine (Woodward) J.; reared in city; *m.* Edith Virginia Bash, Nov. 10, 1904; *c.* Daniel Bash, Edith Virginia. B.S., Princeton Univ., 1897; M.S., 1899.

Jamison, Neal C., co. agrl. agt., Hillsboro, Ore.

Field agt. dairying, U. S. Dairy Div. and Wash. State Coll., 1916–7. *b.* Pecos, Tex., Dec. 13, 1890; *s.* N. D. and Isa I. (Winans) J.; reared on farm. B.S.A., Ore. Agr. Coll., 1914.

Jamison, Orville Alvin, assoc. prof. dairying, Mass. Agr. Coll., Amherst, Mass.

Instr. dairying, Mich. Agr. Coll., 1912–3; instr. an. ind., Univ. Me., 1913–5; present position, 1915—; acting head dept., 1918–9. *b.* Newark, O., June 2, 1889; *s.* Wm. A. and Hannah L. (Swope) J.; reared in city; *m.* Gladys E. Schenck, Aug. 20, 1913; *c.* Dorothea Marie. B.S., Ohio State Univ., 1912; M.S., Univ. Me., 1916.

Jaquish, John J., co. agrl. agt., Tunkhannock, Pa.

b. Mansfield, Pa., Sept. 27, 1890; *s.* Elvin Welcome and Martha (Preston) J.; reared on farm; *m.* Mabel Elaine Robbins, Jul. 14, 1918. B.S., Penn. State Coll., 1915.

Jardine, William M., pres. Kans. State Agr. Coll., Manhattan, Kans.

Asst., dept. agron., Utah Agr. Coll., 1904; instr., 1905; prof., 1905–6; asst. U. S. cerealist in chg. dry-land cereal invest., U. S Dept. Agr., 1907–10; agron., Kans. State Agr. Coll. and Exp. Sta., 1910–3; acting dean and dir., Jan.–Jul., 1913; dean and dir., 1913–8; pres., 1918—. Lect., Grad. Sch. Agr., Mich. Agr. Coll., 1912. Manag. Utah Arid Farming Co., 1905; dir. Northern Pure Seed Co., 1908–15. Fellow A. A. A. S. Pres. Inter. Dry-Farming Congress and Soil Products Expos., 1915–6; pres. Amer. Soc. Agron., 1916–7; vice-chm. Kans. State Council of Defense. *b.* Oneida Co., Ida., Jan. 16, 1879; *s.* Wm. and Rebecca (Dudley) J.; reared on farm and cattle ranch; *m.* Effie Nebeker, Sept. 6, 1905; *c.* Wm. Nebeker, Marian, Ruth. B.S.A., Utah Agr. Coll., 1904; LL.D., Campbell Coll., 1916. Beta Theta Pi; Alpha Zeta; Phi Kappa Phi.

Jarnagin, Milton Preston, prof. an. husb., Univ. Ga., Athens, Ga.

Instr. an. husb., Va. Poly. Inst.,, 1905–7; present position, 1907—. State leader in live-stock ext. for Ga. Sec. Ga. Dairy and Live-Stock Assoc., 1910—. Pres. Glenmore Stock Farm, Jefferson City, Tenn. *b.* Farmville, Va., Sept. 17, 1881; *s.* Milton P. and Agnes (Watkins) J.; reared on farm; *m.* Dorothy Greve, Sept, 16, 1908; *c.* Milton P., Janet Stirling, Agnes Watkins. B.S.A., Ia. State Coll., 1905. Sigma Alpha Epsilon.

Jarvis, Chester Deacon, specialist in agrl. educ., U. S. Bur. Educ., Washington, D. C.

Div. supt., Inter. Correspondence Schs., Montreal, Que., 1899–1904; hort., Storrs

Exp. Sta., 1906–13; dir. ext. serv., Conn. Agr. Coll., 1913–5; present position, 1915—. *Joint auth.*, Trees in Winter, 1912. *b.* London, Ont., Mar. 29, 1876 (naturalized 1917); *s.* Lyman Gage and Lila (Deacou) J.; reared on farm; *m.* Marion Smith, Oct. 3, 1901. B.S.A., Ont. Agr. Coll., 1899; Ph.D., Cornell Univ., 1909. Sigma Xi.

Jay, Russell David, co. agrl. agt., Carrollton, Mo.

Farm operator, Clinton Co., O., 1906–12; asst. field agt., Ohio Exp. Sta., 1912–5; co. agt., 1916—. *b.* New Burlington, O., Mar. 23, 1883; *s.* James and Elida (Coffin) J.; reared on farm; *m.* Mary Ethel Greene, Dec. 24, 1906; *c* Miriam, Wilbur. B.S., Wilmington Coll., O., 1906; student Univ. Mo., 1915–6.

Jayne, Stephen Oscar, agrst., Off. Farm Manag., 406 Federal Bldg., Spokane, Wash.

Conducted irrig. invests., U. S. Dept. Agr., 9 yrs.; present position, 1915—. *b.* Wyoming Co., Pa., Nov. 24, 1878; *s.* Wm. H. and Augusta P. (Russell) J.; reared in village and on farm; *m.* Ethel Cornelius, Apr. 11, 1905; *c.* Stephen Cornelius, Dorothy. B.S., Wash. State Coll., 1904; C.E., 1914.

Jeffers, Henry William, pres. Walker Gordon Laboratory Co., Plainsboro, N. J.

Mem. N. J. State Bd. Agr.; mem. adv. com., U. S. Food Administration and U. S. Dept. Agr. Studied agrl. conditions in Europe, 1913. *b.* Kingsley, Pa., Jan. 4, 1871; *s.* Watson and Betsey M. (Oakley) J.; reared on farm; *m.* Anna C. Adams, Jul. 14, 1898; *c.* Emily A., Henry W., Louise E. B.S.A., Cornell Univ., 1898. Kappa Sigma.

Jeffery, Joseph A., land comnr., Duluth South Shore and Atlantic Ry., Duluth, Minn.

Asst. prof. agr., N. D. Agr. Coll., 1896–7; asst. prof. soil physics, Univ. Wis., 1897–9; asst. prof. agr., Mich. Agr. Coll., 1899–1902; prof. soils and soil physics, 1902–13; soil physicist, Mich. Exp. Sta., 1908–13; present position, 1913—. *Auth.:* Text-book of Land Drainage, 1916. *b.* Cornwall, Pa., Sept. 17, 1859; *s.* John and Mary (Davis) J.; reared on farm; *m.* Lucy A. Smith, June 30, 1887; *c.* Alice E., Raymond L. B.S.A., Univ. Wis., 1896. Alpha Zeta.

Jeffries, Ralph Rodolf, co. agrl. agt., Canon City, Colo.

Student asst., Ohio State Univ., 1912; specialist hort. ext., W. Va. Univ., 1913–6; co. agt., 1916—. *b.* Denver, Colo., Sept. 15, 1885; *s.* Warwick Miller and Loris Cordelia (Rodolf) J.; reared in city; *m.* Idalie Peter, Dec. 23, 1913. B.S., Colo. Agr. Coll., 1910. Alpha Zeta.

Jehle, Robert Andrew, ext. path., Bur. Plant Ind., N. C. Exp. Sta., Raleigh, N. C.

Lab. asst. plant path., Univ. Minn., 1909–10; prof. sci. and agr., high-sch., Wheaton, Minn., 1910–1; asst. plant path., Kans. State Agr. Coll., 1912–3; instr., Cornell Univ., 1913–4; asst. plant path., Cuba Exp. Sta., 1914–5; asst. plant path., Fla. State Plant Bd., 1915–7; present position, 1917—. *b.* St. Paul, Minn., Jan. 30, 1882; *s.* John and Rose (Denzer) J.; reared in city and on farm; *m.* Effie V. Crum, Dec. 28, 1912; *c.* Ruth Amanda. B.S.A., Univ. Minn., 1905; M.S.A., 1910; Ph.D., Cornell Univ., 1914. Sigma Xi.

Jenkins, Charles Francis, ed. Farm Journal, 232 S. 7th St., Philadelphia, Pa.

Mem. Bd. Managers, Swarthmore Coll. *Auth.:* Quaker Poems, A Collection of Verse Relating to the Society of Friends, 1893; Guide Book to Historic Germantown, 1902; Washington in Germantown, 1905; Jefferson's Germantown Letters, 1906; Lafayette's Visit to Germantown, 1911. *b.* Norristown, Pa., Dec. 17, 1865; *s.* Howard M. and Mary Anna (Atkinson) J.; *m.* Maria G. Cope, Feb. 12, 1890.

Jenkins, Edward Hopkins, dir. Conn. Agr. Exp. Sta., New Haven, Conn.

Chem., Conn. Exp. Sta., 1877–1900; dir., 1900—; treas., 1901—. Chm. State Sewerage Comn., 4 yrs. Fellow A. A. A. S. *b.* Falmouth, Mass., May 31, 1850; *s.* John and Chloe (Thompson) J.; reared on farm; *m.* Elizabeth E. Foote, June 16, 1885. B.A., Yale Univ., 1872; Ph.D., 1879; studied Univ. Leipzig and Forest Sch., Tharandt, Saxony. Psi Upsilon.

Jenks, Floyd B., prof. agrl. educ., Univ. Vt., Burlington, Vt.

Manag. ranch, Kearney, Neb., 1899–1900; manag. dairy farm, Evansville, Ind., 1901; general farmer and teach. rural schs., Vermillion Co., Ind., 1901–4; teach. biol. and agr., Goshen, Ind., 1904–8; instr. agrl. educ., Mass. Agr. Coll., 1908–9; asst. prof., 1909–11; specialist in agrl. educ., U. S. Bur. Educ., 1911–3; present position, 1913—. *b.* Toronto, Ind., Jul. 7, 1876; *s.* Stephen and Mary Elizabeth (James) J.; reared on farm; *m.* Lucile Major, 1909; *c.* Major B., Robt. Stephen, David Wilson, Marjorie, Wm. Lee. B.S.A., Purdue Univ., 1898.

Jennison, Harry Milliken, asst. prof. bot. and bact., ext. bot., Mont. State Coll., Bozeman, Mont.

Instr. bot., Mass. Agr. Coll., 1908–10; Wabash Coll., 1910–1; instr. bot. and bact., Mont. State Coll., 1911–3; asst. prof., 1913—. *b.* Worcester, Mass., June 24, 1885; *s.* Hobart N. and Etta (Milliken) J.; reared on farm; *m.* Alice Laura Washburn, Aug. 8, 1912; *c.* John Robt., Geo. Henry. B.S., Mass. Agr. Coll., 1908; M.A., Wabash Coll., 1911; grad. student, Washington Univ., 1915–7. Sigma Xi.

Jensen, Lewis N., asst. in dry land agr., U. S. Dept. Agr., Amarillo, Tex.

b. Walnut, Ia., Oct. 25, 1880; *s.* Soren P. and Lena (Hansen) J.; reared on farm; *m.* Marguerite I. Rutledge, Mar. 4, 1909. B.S., S. D. State Coll., 1905; student Univ. Neb., 1906–7.

Jesness, Oscar Bernard, invest. in coop. organization, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Instr. agr., high-sch., Winthrop, Minn., 1912–3; asst., Univ. Minn., 1914–5; present position, 1915—. *b.* Morris, Minn., Feb. 4, 1889; *s.* O. L. and Bertha (Larson) J.; reared on farm; *m.* Ella E. Freeland, Aug. 9, 1916. B.S.A., Univ. Minn., 1912. Alpha Zeta.

Jeter, Frank Hamilton, agrl. ed., N. C. A. & M. Coll., Raleigh, N. C.

Asst. to dir., N. C. Exp. Sta., 1912–3; field man in fert. exp., German Kali Works, Atlanta, Ga., 1913–4; present position, 1914—. Vice-pres. Am. Assoc. of Agrl. Coll. Editors; mem. exec. com., 1918. Sec. N. C. Thrift Comn. *b.* Santuck, S. C., May 2, 1891; *s.* L. B. and Janie (Hamilton) J.; reared on farm; *m.* Irene A. Albert, June 8, 1914; *c.* Frank H. Jr. B.S.A., Clemson Agr. Coll., 1911.

Jewell, Don Beebe, co. agrl. agt., Grand Rapids, Minn.

Sci. aid, U. S. Dept. Agr., 1901–2; dir. agr., State Normal, Athens, Ga., 1910–1; dir. agr., Sch. Distr. No. 6, Deer River, Minn., 1912–3; agrl. agt., Koochiching Co., Minn., 1913–5; co. supt. schs., 1915–8; agrl. agt., Itasca Co., 1918—. Pres. Minn. Agrl. Men's Assoc., 1912. *b.* Hastings, Mich., Apr. 6, 1879; *s.* Wm. H. and Roxanna L. (Beebe) J.; reared on farm; *m.* Vida M. Norris, June 10, 1906; *c.* Robt. E., Paul N. B.S., Mich. Agr. Coll., 1901; grad. Mich. State Normal, 1907.

Johnson, Aaron Guy, assoc. prof. plant path., Univ. Wis., Madison, Wis.

Asst. systematic bot., Mo. Bot. Gard., St. Louis, 1903–6; asst. bot. and hort., S. D. State Coll., 1906–8; asst. bot., Purdue Exp. Sta., 1908–11; asst., instr., asst. prof., assoc. prof. plant path., Univ. Wis., 1911—. Mem. editorial bd., American Journal of Botany. *b.* Brookings Co., S. D., Sept. 1, 1880; *s.* Gustav and Lovis Albertina (Jonnson) J.; reared on farm; *m.* Ruth Marian Westcott, Aug. 30, 1911; *c.* Lewis Rockwell. B.S., S. D. State Coll., 1907; M.S., Purdue Univ., 1911; Ph.D., Univ. Wis., 1914. Sigma Xi.

Johnson, Albert Aaron, dir. N. Y. State Sch. Agr. on L. I., Farmingdale, Long Island, N. Y.

Prof. agr., N. Ga. Agr. Coll., Dahlonega, 1907–8; princ. Marinette Co. Sch. Agr. and Dom. Sci., Wis., 1908–9; princ. and organizer LaCrosse Co. Sch. Agr. and Dom. Sci., Onalaska, Wis., 1909–12; supt. and organizer Milwaukee Co. Sch. Agr., and Dom. Sci., Wauwatosa, 1912–4; present position, 1914—. Served in Spanish-American War and in Philippine Insurrection, 1898–9. *b.* Macfarland, Wis., Jan. 1, 1880; *s.* Isaac and Aase (Bakke) J.; reared on farm; *m.* Anne Ellene Glenn, 1909; *c.* Albert Richard. B.S.A., Univ. Wis., 1907. Alpha Tau Omega.

Johnson, Edward Carl, dean div. coll. ext., Kans. State Agr. Coll., Manhattan, Kans.

Student asst. bot., Univ. Minn., 1905–6;

instr., 1906–7; asst. plant path., U. S. Dept. Agr., 1907; plant path. in chg. cereal disease work, 1908–12; supt. insts. and dems., Kans. State Agr. Coll., 1912—; dean div. coll. ext., 1915—. Fellow A. A. A. S. *b.* Otisco, Minn., Apr. 18, 1880; *s.* August and Josephine (Erikson) J.; reared on farm; *m.* Ruth Daniels, June 28, 1911; *c.* Carola, Josephine Ruth. B.A., Univ. Minn., 1906; M.A., 1907; studied Geo. Washington Univ., 1910–1. Phi Beta Kappa; Sigma Xi; Alpha Zeta; Phi Kappa Phi; Gamma Sigma Delta.

Johnson, Harold Fay, co. agrl. agt., Newport, Vt.
Ext. asst. an. and dairy husb., Univ. Vt., 1914–7; agt. Orleans Co., 1917—. *b.* Brattleboro, Vt., Jul. 11, 1892; *s.* Frank Allyn and Emma Jane (Fay) J.; reared on farm; *m.* Edith Ellen Merrihew, June 11, 1917. B.S., Univ. Vt., 1914. Alpha Zeta.

Johnson, Isaac B., co. agt. leader, S. D. State Coll., Brookings, S. D.
Asst. an. husb., W. Va. Univ., 1913–4; co. agrl. agt., Columbus, Ind., 1914–7; present position, 1917—. *b.* Humboldt, Ia., May 30, 1890; *s.* J. C. and Bertha (Anderson) J.; reared on farm; *m.* Emma A. Gamble, June 17, 1914; *c.* Gladys Marguerite. B.S.A., Ia. State Coll., 1913.

Johnson, James, asst. prof. hort., Univ. Wis., Madison, Wis.
Asst. hort., Univ. Wis., 1909–11; instr., 1911–5; asst. prof., 1915—; collaborator, U. S. Dept. Agr., 1915–7; agt., U. S. Dept. Agr., 1917—. *b.* Deerfield, Wis., May 11, 1886; *s.* Hans and Karen (Martinsen) J.; reared on farm; *m.* Dorothy E. Perrin, Sept. 16, 1913; *c.* Emily Karen. B.S.A., Univ. Wis., 1909; M.S., 1911; Ph.D., 1918. Sigma Xi.

Johnson, Martin B., co. agrl. agt., Alexander, N. D.
Farmer, Walsh Co., N. D., 1902–7; asst. supt. state dem. farms, 1909–11. *b.* Gottenburg, Sweden, Jan. 21, 1882 (immigrated 1889); *s.* John Ellis and Nellie (Johnson) J.; reared on farm; *m.* Jessie B. Hansen, June 10, 1915; *c.* Wm. Martin. Grad. farm manag. course, N. D. Agr. Coll., 1909.

Johnson, Oliver Ray, assoc. prof. farm manag., Univ. Mo., Columbia, Mo.
Asst. farm manag., Univ. Mo., 1911–2; instr., 1912–3; asst. prof., 1913–4; chm. dept., 1914—; assoc. prof., 1916—. With U. S. Army, 1918—. *b.* Raymond, Kans., Nov. 15, 1887; *s.* Oliver Henry and Sarah Matilda (Minor) J.; reared on farm; *m.* Ruth Phillips, 1911; *c.* Oliver Henry, Dorothy Elizabeth. B.S.A., Univ. Mo., 1910; M.A., 1912. Gamma Sigma Delta.

Johnson, Orville M., co. agt. leader, Ohio State Univ., Columbus, O.
Asst. soils ext., Ohio State Univ., 1910–2; prof. farm manag., W. Va. Univ., 1912–7; present position, 1917—. Traveled in Europe, 1911. *b.* Pana, Ill., Aug. 31, 1882; *s.* Fred S. and Eva L. (Miller) J.; reared on farm. B.S., Ohio State Univ., 1908. Delta Theta Sigma.

Johnson, Paul Allen, co. agrl. agt., Fairmont, Minn.
Instr agr., high-sch., Harmony, Minn., 1913–7; Tracy, 1917–8; agt. Martin Co., 1918—. *b.* Cherokee, Ia., Oct. 31, 1889; *s.* Geo. A. and Eliza (Head) J.; reared on farm; *m.* Minnie B. Aug, Nov. 24, 1914; *c.* Geo. Frederick. B.S., Ia. State Coll., 1913. Alpha Zeta.

Johnson, Stephen B., asst. prof. hort., Univ. Ariz., Tucson, Ariz.
Asst. hort., N. D. Agr. Coll., 1912–3. *b.* Louisville, Ky., Jan. 4, 1891; *s.* Wm. Robt. and Salome Jeanne (Shadbourne) J.; reared in city and on farm; *m.* Myrtle I. Lewis, Aug 26, 1912; *c.* Donald Lewis. B.S., Okla. A. & M. Coll.

Johnson, Thomas Carskadon, dir. Va. Truck Exp. Sta., Norfolk, Va.
Acting prof. hort., Univ. Mo., 1901–2; fellow hort., Cornell Univ., 1902–3; instr. hort. and bot., W. Va. Univ., 1903–6; asst. prof., 1906–7; present position, 1908—. Fellow A. A. A. S. Pres. Am. Soc. for Hort. Sci., 1917. *b.* Long Reach, W. Va., Jan. 1, 1870; *s.* Daniel D. and Mary M. (Martin) J.; reared on farm; *m.* Laura Boughton, Aug. 28, 1907; *c.* Travis C. B.S.A., W. Va. Univ., 1896; A.M., 1900. Gamma Alpha.

Johnston, Earl Steinford, assoc. plant physiologist, Md. Exp. Sta., College Park, Md.
Instr. sci., Pennington Boys' Sch.,

N. J., 1913–4; asst. Md. Weather Serv., summer, 1914; asst. Desert Lab., Tucson, Ariz., summer, 1915; research asst. in plant physiology, Johns Hopkins Univ., 1914–7; present position, 1917—. *b.* Quarryville, Pa., Feb. 5, 1889; *s.* Chas. B. and Anne (Steinford) J.; reared in town; *m.* F. Virginia Andes, Sept. 8, 1917. Ph.B., Dickinson Coll., 1913; A.M., 1914; Ph.D., Johns Hopkins Univ., 1917. Theta Chi; Gamma Alpha.

Johnston, Ralph E., co. agrl. agt., Hot Springs, S. D.

Student asst. agron., S. D. State Coll., 1915–6. *b.* Mitchell, S. D., June 2, 1891; *s.* E. S. and Nellie (Katherine) J.; reared in town; *m.* Blanche Marie Avery, Sept. 4, 1917. B.S., S. D. State Coll., 1916.

Jones, Charles J., co. agrl. agt., Bedford, Ind.

Fert. salesman through N. D., S. D. and Minn., 1910–1; soil asst., Wash. State Coll., 1912; irrig. work at Nev., 1912–3; agrl. agt., Lawrence Co., Ind., 1913—. Del. from Ind. to Nat. Top Notch Farmers' Club, San Francisco, 1915. *b.* Bloomfield, Ind., Dec. 25, 1886; *s.* Wm. J. and Eliza L. (Sargent) J.; reared on farm; *m.* Dora May Price, Aug. 2, 1912. B.S., Univ. Ill., 1910. Sigma Pi.

Jones, Charles Richardson, asst. prof. zool. and ent., Colo. Agr. Coll., Fort Collins, Colo.

b. Hastings, Neb., Oct. 17, 1879; *s.* Thos. and Mary (LaBell) J.; reared on farm; *m.* Lena Gilkison; *c.* Harold LaBell, Maurine Lucil. B.S.A., Colo. Agr. Coll., 1904; M.S., 1916. Traveled through Mexico, Alaska, Japan, China, Philippines.

Jones, Clarence E., co. agrl. agt., Mackay, Ida.

Princ. high-sch., Grantsville, Utah, 1912–3; manag. Kansas Creamery Co., 1914–7; manag. farm, 1913–7; co. agt., 1918—. *b.* Cedar City, Utah, Aug. 25, 1885; *s.* Hyrum and Lucy (Jones) J.; reared on farm; *m.* Olive A. Lambert, June 1, 1910; *c.* Maurine L., Dwight L. B.S.A., Utah Agr. Coll., 1911.

Jones, Daniel Herbert, prof. bact., Ont. Agr. Coll., Guelph, Ont.

Resident master, Ont. Agr. Coll., 1906–8; lect. bact., 1908–15; prof. bact., 1915—. *b.* Stourbridge, England, Sept. 29, 1875; *s.* Joseph and Mary Anne (Hatton) J.; reared in town and on farm; *m.* Helen Gray Carlyle, Jul., 1911; *c.* Helen Marion Gray. B.S.A., Ont. Agr. Coll., 1908.

Jones, Donald Forsha, plant-breeder, Conn. Exp. Sta., New Haven, Conn.

Asst. plant-breeder and instr., Ariz. Agr. Coll. and Exp. Sta., 1911–3; instr. hort. and plant-breeding, Coll. Agr., Syracuse Univ., 1913–5; present position, 1915—. *b.* Hutchinson, Kans., Apr. 16, 1890; *s.* O. W. and Minnie (Bush) J.; reared in city and on farm; *m.* Eleanor March, Dec. 1915. B.S., Kans. State Agr. Coll., 1911; M.S., Syracuse Univ., 1916; D.S., Harvard Univ., 1918. Sigma Nu; Alpha Zeta.

Jones, Edward Richard, prof. agrl. engin. and chm. dept., Univ. Wis., Madison, Wis.

Asst. instr., asst. prof., assoc. prof. soils, Univ. Wis., 1905–8; present position, 1918—. Distr. emergency dem. leader, 1917. Chm. Com. on Drainage, Am. Soc. Agrl. Engin. Traveled in Europe, 1911. *b.* Bangor, Wis., May 20, 1882; *s.* Elias and Catherine (Evans) J.; reared on farm; *m.* Dorothea Moll, Sept., 1911 (d. 1912); 2d, Jane Walker, June, 1916; *c.* Richard Walker. B.S.A., Univ. Wis., 1905; M.S., 1908. Alpha Zeta.

Jones, Frank Dyer, co. agrl. agt., Morrisville, Vt.

b. Braintree, Vt., Nov. 18, 1888; *s.* Wm. Allen and Adella (Angie) J.; reared on farm; *m.* Gladys Ruby Swann, Aug. 9, 1917. B.S., Univ. Vt., 1913. Alpha Zeta.

Jones, Henry Neely, asst. prof. bact., Coll. Agr., Syracuse Univ., Syracuse, N. Y.

Princ. North Haven high-sch., 1905–6; instr. sci., Leavith Inst., Me., 1906–7; instr. sci., Waterville high-sch., Me., 1907–8; bact., Mass. State Bd. of Health, 1910–4; present position, 1914—. *b.* Ashland, Me., Oct. 25, 1881; *s.* Henry and M. R. (Fifield) J.; reared in town; *m.* Cora Crommett, June 24, 1907; *c.* Henry Crommett, Arthur Fifield. A.B., Colby Coll., 1905. Sigma Xi; Zeta Psi.

Jones, James Knox, distr. dem. agt., Farmington, Mo.

Supt. schs., Prosperity, Mo., 1909–11; Alba, 1911–4; Piedmont, 1915–8. *b.* Stotts City, Mo., Apr. 2, 1881; *s.* Columbus D. and Katherine (Payne) J.; reared on farm; *m.* Mary Burris, 1911; *c.* Ray Eugene, Margaret Ruth. B.Ped., State Normal, Springfield, Mo.; student, Univ. Mo.

Jones, Jenkin William, supt. U. S. Rice Exp. Sta., Biggs, Calif.

Supt. Cheyenne Field Sta., Wyo., 1912–5; supt. Nephi Substa., Utah, 1915–8; present position, 1918—. *b.* Malad, Ida., Apr. 9, 1888; *s.* David W. and Maria (Williams) J.; reared on farm. B.S., Utah Agr. Coll., 1912. Phi Kappa Iota.

Jones, Jesse McCullah, dir. div. agrl. ext., Va. Poly. Inst., Blacksburg, Va.

Asst. an. husb., Ala. Poly. Inst., 1903–4; farmer, Ala., 1905–10; co. agt., Farmers' Coop. Dem. Work, U. S. Dept. Agr., 1911; distr. agt., 1912; prof. an. husb., Ala. Poly. Inst., 1913; agron. and field agt., States Relations Serv., U. S. Dept. Agr., 1914–6; present position, 1916—. Sec. Ala. Live-Stock Assoc., 1913. Mem. exec. com., Va. Food Administration, 1917; chm. Va. Agrl. Council of Safety, 1917; mem. Va. Council of Defense, 1917—. *b.* Anderson Co., Kans., Nov. 30, 1878; *s.* Wesley N. and Ella L. (Bacon) J.; reared on farm; *m.* Edna V. Alsobrook, Oct. 6, 1909; *c.* Jesse M. Jr., Elmer Alsobrook. B.S.A., Kans. State Agr. Coll., 1903.

Jones, J. Seneca, asst. co. agt. leader, Univ. Minn., St. Paul, Minn.

Teach. agr., Norton Co. high-sch., Kans., 1908–10; Valley City public schs., N. D., 1910–1; Mora, Minn., 1911–3; Madison, Minn., 1913–6; agt., Lac-qui Parle Co., 1916–7; present position, 1917—. Pres. Minn. Agrl. Instrs. Assoc. of Secondary Schools, 1915–6. *b.* Bala, Kans., Jul. 9, 1884; *s.* John E. and Eliza (Daniels) J.; reared on farm; *m.* Rose C. Tschumperlin, Aug. 26, 1913; *c.* Etheldreda. B.S., Kans. State Agr. Coll., 1908.

Jones, J Shirley, chem. and dir. Ida. Exp. Sta., Moscow, Ida.

Chem., Ida. Exp. Sta., 1906—; prof. agrl. chem., Univ. Ida., 1908—; dir. Ida. Exp. Sta., 1914—. Mem. Ida. com., Naval Consulting Bd. *b.* Garrett, Ind., Feb. 14, 1876; *s.* Sidney P. and Mary (Dittmar) J.; reared on farm; *m.* Tillie Browning, Sept., 1905; *c.* Mary Elizabeth, John Paul, Margaret Helen, Wm. Shirley. B.S.A., Univ. Calif., 1903; M.S.A., Cornell Univ., 1914. Sigma Xi.

Jones, LeRoy Lucien, assoc. in poultry ext., Purdue Univ., La Fayette, Ind.

In chg. poultry dept., Univ. Ga., 1912–4; present position, 1914—. *b.* Napoleon, Mich., Nov. 5, 1885; *s.* Lucien M. and Jennie L. (Jones) J.; reared in town and on farm; *m.* Frances N. Simpson, Jul. 15, 1915; *c.* Lucien Gordon, Margaret Frances. B.S., Mich. Agr. Coll., 1912.

Jones, Lewis Ralph, prof. plant path., Univ. Wis., Madison, Wis.

Prof. bot., Univ. Vt., and bot. Exp. Sta., 1890–1910; present position, 1910—. Fellow A. A. A. S. Traveled Europe, 1904. *Ed.*, Phytopathology, 1911–4; bact. terms, Websters' New Inter. Dict. *b.* Brandon, Wis., Dec. 5, 1864; *s.* David and Lucy (Knapp) J.; reared on farm; *m.* May I. Bennett, June 24, 1890. Ph.B., Univ. Mich., 1889; Ph.D., 1904; Sc.D., Univ. Vt., 1910.

Jones, Maurice Daniel, farm manag. dem., Univ. Me., Orono, Me.

Instr. agr., Oak Grove Sem., Vassalboro, Me., 1912–3; instr. agr., summer sch., Charlottetown, P. E. I., 1913; co. agrl. agt., Penobscot Co., Me., 1913–7; present position, 1917—. *b.* Unity, Me., Nov. 11, 1887; *s.* Ephraim M. and Florence A. (Harding) J.; reared on farm; *m.* Charlotte C. Clough, June 11, 1911; *c.* Beatrice F., Frances C. B.S.A., Univ. Me., 1912. Phi Eta Kappa; Alpha Zeta.

Jones, Roy Carroll, co. agrl. agt., Tillamook, Ore.

Asst. an. nutr., Penn. State Coll., 1908–10; instr. and asst. prof. an. husb., Mont. State Coll., 1910–4; ext. serv., Ore. Agr. Coll. and co. agt., 1914—. Sec. Mont. State Dairymans' Assoc., 1910–4; co. chm. State Council of Defense, 1917—. 1st Lieut., Ore. Volunteer Guards. *b.* Lowell, Vt., May 2, 1886; *s.* Frank W. and Martha G. (Patterson) J.; reared village and on farm; *m.* Clara E. Rand, Jul. 1, 1909; *c.* Alma

Arlene, Roy Carroll Jr. B.S., Univ. Vt., 1908. Phi Beta Kappa; Alpha Zeta.

Jones, Vern Reuben, dairy manufacturing specialist, U. S. Dept. Agr., St. Albans, Vt.

Asst. dairyman and instr. dairying, Wash. State Coll., 1910–2; instr., 1913; asst. prof. dairy husb., S. D. State Coll., 1915–6; assoc. prof., 1916–7. *b.* Sprague, Wash., Jul. 19, 1889; *s.* Reuben R. and Maggie E. J.; reared on farm. B.S., Wash. State Coll., 1912; M.S.A., Cornell Univ., 1915. Alpha Zeta; Sigma Phi Epsilon.

Jordan, Elbert L., prof. an. ind., La. State Univ., Baton Rouge, La.

Present position, 1905—. Sec. La. Swine Breeders' Assoc. *Auth.:* Helpful Hints on Hog Husbandry, 1915. *b.* Auroraville, Wis., Jan. 25, 1878; *s.* John and Lavina (Davis) J.; reared on farm; *m.* Lillian Jones, Aug. 9, 1911; *c.* Bert. B.S., Univ., Wis., 1904.

Jordan, Ralph, co. agrl. agt., Old Court House, Cleveland, O.

Vice-pres. O. Veg. Growers' Assoc. *Auth.:* Onions, 1915. *b.* Creston, O., Aug. 6, 1891; *s.* W. B. and Estella M. (Anthony) J.; reared on farm. B.S., Ohio State Univ., 1914. Alpha Zeta.

Jordan, Samuel M., co. agrl. agt., Keytesville, Mo.

Teach. high-sch., 6 yrs.; lect. farmers' inst., 6 yrs. *Auth.:* Making Corn Pay, 1913. *b.* Albany, Mo., Oct. 7, 1860; *s.* Samuel and Anne (Puterbaugh) J.; reared on farm; *m.* Stella Flowers, June 13, 1889; *c.* Geo. F., Minnie Dale. B.S., Stanberry Normal Sch., Mo., 1885.

Jordan, Whitman Howard, dir. N. Y. Agr. Exp. Sta., Geneva, N. Y.

Asst., Conn. Exp. Sta., 1878–9; instr., Univ. Me., 1879–80; prof. agrl. chem., Penn. State Coll., 1881–5; dir. Me. Exp. Sta., 1885–96; present position, 1896—. Fellow A. A. A. S. *Auth.:* The Feeding of Animals, 1901, rev. 1917; Principles of Human Nutrition, 1912. *b.* Raymond, Me., Oct. 27, 1851; *s.* James and Sarah (Symonds) J.; *m.* Emma L. Wilson, Mar. 3, 1880. B.S., Univ. Me., 1885; M.S., 1878; D.Sc., 1896; LL.D., Mich. Agr. Coll., 1907, Hobart Coll., 1911. Phi Gamma Delta.

Joseph, Walter Edward, asst. prof. an. husb., Mont. State Coll., and asst. an. husb. Exp. Sta., Bozeman, Mont.

Instr. an. husb., S. D. State Coll., 1909–10; instr., Univ. Ill., 1912–3; assoc., 1913–6; present position, 1916—. *b.* Lovett, Ind., Dec. 22, 1881; *s.* John and Anna S. (Zierer) J.; reared on farm. B.S., Purdue Univ., 1907; Ph.D., Univ. Ill, 1912.

Joslin, John Carlos, manag. U. S. Creamery, Grove City, Pa.

Creamery insp., Minn. State Dairy and Food Dept., 3 yrs.; creamery insp., U. S. Dairy Div., 3 yrs.; butter insp., U. S. Dairy Div., Chicago market, 2 yrs.; instr. Minn. Dairy Sch., 3 yrs.; instr. Ia. Dairy Sch., 2 yrs. Vice-pres. Nat. Creamery Butter Makers' Assoc.; sec. Ia. Butter Makers' Assoc. *b.* Richland Co., Wis., Apr. 25, 1876; *s.* A. E. and Sarah S. (Fowler) J.; reared on farm; *m.* Myrtle F. Chilgren, Oct. 11, 1899; *c.* Edith, Ethel, Florence.

Judd, Ethelbert Taylor, co. sec. Y. M. C. A., Freehold, N. J.

With West Side Y. M. C. A., N. Y. City, 1906–9; Trenton, N. J., Y. M. C. A., 1909–11; Monmouth Co., 1911—. *b.* Hamlet, N. Y., Mar. 5, 1886; *s.* Wm. E. and Emma (Denison) J.; reared on farm; *m.* Helen E. Markham, Jul. 20, 1910; *c.* Marion Marguerite. Student Berea Coll., Ky., 2 yrs.

Jungerman, Augustus Albert, co. agrl. agt., Modesto, Calif.

Teach. chem. and physics, White's Prep. Sch., Berkeley, Calif., 1912–5; chg. agrl. dept. high-sch., Paso Robles, distr. club leader, U. S. Dept. Agr. and Univ. Calif., San Obispo Co., 1915–7; agt. Stanilaus Co., 1917—. *b.* Yankton, S. D., Oct. 9, 1899; *s.* John and Mary (Galey) J.; reared on farm. B.S., Univ. Calif., 1914; M.S., 1915. Phi Delta Kappa; Alpha Kappa Lambda.

K

Kable, George Wallace, co. agrl. agt., Corvallis, Ore.

Instr. and asst. irrig. engin., N. Mex. A. & M. Coll., 1913–4; asst. prof., 1914–5; ranch manag., N. Mex., 1915–6; agt. Benton Co., Ore., 1917—. *b.* Shannon, Ill., May 24, 1888; *s.* C. H. and Anna M.

(Shaffer) K.; reared in town. B.S. in C.E., Univ. Calif., 1914; grad. student, Univ. Neb., 1916–7.

Kadderly, Wallace LaDue, asst. co. agt. leader, Ore. Agr. Coll., Corvallis, Ore.
Asst. co. agt., 1916; farm manag. dem., Mar.–Jul., 1917. *b.* Portland, Ore., Jul. 7, 1892; *s.* Chas. and Mary (LaDue) K. B.S., Ore. Agr. Coll., 1916. Phi Delta Theta.

Kadonsky, Joseph Frank, co. agrl. agt., Ironwood, Mich.
b. Milwaukee, Wis., Nov. 4, 1878; *s.* John and Mary (Schramel) K.; reared on farm. A.B., Univ. Wis., 1907; B.S.A., 1908.

Kains, Maurice Grenville, hort. consultant, Port Washington, N. Y.
Special crop culturist, U. S. Dept. Agr., 1897–1900; teach. Sch. Practical Agr. and Hort., Briarcliff Manor, N. Y., 1900–2; ed. asst., New Inter. Encyclopedia, 1902–3; assoc. ed. American Agriculturist, 1904–14; prof. hort., Penn. State Coll., 1914–6; lect. in hort., Columbia Univ., 1917—. *Auth.:* Ginseng, 1898 (2d ed. 1903); Making Horticulture Pay, 1909; Culinary Herbs, 1912; Plant Propagation, 1916; Principles and Practice of Pruning, 1917; Home Fruit Growing, 1918. *b.* St. Thomas, Ont., Oct. 10, 1868 (naturalized 1899); *s.* John Alexander and Emma Elizabeth (Hughes) K.; reared in country village; *m.* Inez Hutton, Aug. 14, 1895; 2d, Jean Hickey, June 1, 1913; *c.* Maurice Eugene, Louis Stanley. B.S., Mich. Agr. Coll., 1895; B.S.A., Cornell Univ., 1896; M.S.A., 1897.

Kalkus, Julius Wilbur, prof. histology, path. and bact. and vet. Exp. Sta., Wash. State Coll., Pullman, Wash.
Instr. histology and path. and asst. vet. Exp. Sta., Wash. State Coll., 1909–11; asst. prof., 1911–4; prof., 1914—. Pres. Wash. State Vet. Med. Assoc., 1912. *b.* Atkinson, Neb., Sept. 14, 1886; *s.* Julius L. and Josie (Drasky) K.; reared in town; *m.* Louise Ann McGavick, Jul. 11, 1916 ; *c.* Julius Hugh. D.V.S., Kans. City Vet. Coll., 1909. Alpha Psi.

Karper, Robert Earl, supt. Tex. Exp. Substa. No. 8, Lubbock, Tex.
Asst. cereal invest., Hays Exp. Sta., Kans., 1913; asst. agron., Okla. A. & M. Coll., 1914–5; present position, 1915—. *b.* Chambersburg, Pa., Oct. 9, 1888; *s.* Wm. Edward and Della Emma (Laughlin) K.; reared on farm; *m.* Sophia G. Dickinson, Mar. 8, 1915; *c.* Robt. E. Jr. B.S.A., Kans. State Agr. Coll., 1914. Sigma Nu.

Karraker, P. E., asst. prof. soils, Exp. Sta., Univ. Ky., Lexington, Ky.
b. Dongola, Ill., Nov. 14, 1886; *s.* H. W and Ina A. (Davis) K.; reared on farm. B.S.A., Univ. Ill., 1911; M.A., Univ. Mo., 1914.

Kates, Clarence Sears, agrst., Glen Loch, Chester Co., Pa.
Vice-pres. Penn. Rural Progress Assoc.; organizer and hon. financial sec. Governor's Tri-State Milk Comn. (of Pa., Del., Md.); organizer and mem. Mayor of Philadelphia's Food Comn.; manag. Farm Div., U. S. Dept. Labor, Philadelphia; mem. Pa. Div., Council Nat. Defense; vice-chm. Food Com. Chester Co.; chm. finance com., Church and Country Life Comns., Fed. Council Churches of Christ in Am.; exec. com., Philadelphia Soc. Promoting Agr.; chm. exec. com., Chester Co. Farm Bur.; hon. sec., Philadelphia Agrl. Serv. Bur.; chm. exec. com., Chester Valley Farms Coop. Soc. Traveled in Europe, 6 yrs. *b.* Philadelphia, Pa., Mar. 3, 1870; *s.* Horace N. and Julia (Smith) K.; reared in city and country; married. Grad. Univ. Penn., 1899.

Kauffman, Calvin Henry, path. insp., Fed. Hort. Bd., U. S. Dept. Agr , Washington, D. C.
Teach. high-schs., 1896–1900; asst. bot., Cornell Univ., 1901–3; instr. and asst. prof. bot., Univ. Mich., 1903–17; present position, 1917—. Traveled in Europe. *b.* Lebanon Co., Pa., Mar. 10, 1869; *s.* John H. and Mary A. (Light) K.; reared on farm; *m.* Lizzie C. Wolf, Sept. 1895. A.B., Harvard Univ., 1896; Ph.D., Univ. Mich., 1906.

Kauffman, Harry Nelson, teach. agr., Kalispell, Mont.
Teach. biol., high-sch., Bozeman, Mont., 1911–4; princ. high-sch., Hobson, 1914–5; teach. Flathead Co. high-sch., Kalispell, 1916—. *b.* DeGraff, O., Dec. 10, 1886; *s.* John Y. and Ida Christine (Strine) K.; reared on farm. A.B., Wittenberg Coll.,

1911; grad. student Univ. Chicago, 1915–6. Phi Gamma Delta.

Kaupp, Benjamin Franklyn, prof. poultry sci. and poultry invest. and path. Exp. Sta., N. C. A. & M. Coll., W. Raleigh, N. C.

Prof. parasitology and anat., Kans. City Vet. Coll., 12 yrs.; prof. path. and path. Exp. Sta., Colo. Agr. Coll., 4 yrs.; comnr. public health, Spartanburg, S. C., 2 yrs.; vet. insp., Bur. An. Ind., U. S. Dept. Agr., 8 yrs.; present position, 1914—. Pres. Mo. State Vet. Med. Assoc., 1900, sec., 1896–1900; sec. Mo. Valley Vet. Med. Assoc., 1900–8, pres., 1909; sec. Colo. Vet. Med. Assoc., 1908–12; pres. southern sect. Am. Assoc. of Instrs. and Invests. in Poultry Husb., 1917—; sec. N. C. Poultry Assoc., 1917—. *Auth.:* Animal Parasites and Parasitic Diseases, 1908 (4th ed. 1918); Diseases of Poultry and Their Treament, 1914 (2d ed., 1917); Poultry Culture, Sanitation and Hygiene, 1915; Anatomy of the Domestic Fowl, 1918. *b.* Williamsport, Pa., Mar. 16, 1874; *s.* C. P. and Mary (Winner) K.; reared on farm; *m.* Mattie Mayes, May 5, 1897; *c.* Madolin. D.V.M., Kans. City Vet. Col., 1895, and 1901; B.S., Colo. Agr. Coll., 1908; M.S., 1910. Alpha Psi; Alpha Gamma Rho.

Kays, Donald Jackson, prof. an. husb., Ohio State Univ., Columbus, O.

Teach., Rockford high-sch., Ill., 2 yrs.; instr. an. husb., Ohio State Univ., 1 yr.; asst. prof., 1 yr.; prof., 4 yrs. Sec. O. Percheron Breeder's Assoc., 5 yrs. *b.* Magnolia, Ill., Sept. 11, 1886; *s.* John A. and Mary Alice (Hartenbower) K.; reared on farm; *m.* Maud Mallin, June 15, 1914; *c.* John Mallin. B.S.A., Univ. Ill., 1912. Alpha Zeta; Alpha Delta Phi.

Kazmeier, Fred William, poultry husb., Tex. A.& M. Coll., College Station, Tex.

Asst. poultry, Cornell Univ., 1913–4; instr., Tex. A. & M. Coll., 1914–5; poultry husb., 1915—. *Auth.:* Correspondence Course in Poultry, in 10 books. *Assoc. ed.*, Texas Poultry Farm, Waco. *b.* Kiel, Wis., Jul. 31, 1890; *s.* Adam and Clara (Hedler) K.; reared on farm; *m.* Ethel Benjamin, Dec. 25, 1914 (d. 1917). Special course, Cornell Univ.

Kearney, Andrew Thomas, co. agrl. agt., Clearfield, Pa.

Teach. country sch., 1911–2. *b.* Lanes Mills, Pa., Jul. 5, 1892; *s.* James G. and Margaret (Smith) K.; reared on farm. B.S., Penn. State Coll., 1916. Alpha Zeta.

Keffer, Charles Albert, dir. ext. div., Univ. Tenn., Knoxville, Tenn.

Prof. bot. and hort., S. D. State Coll., 1886–90; prof. hort. and for., Univ. Mo., 1891–4; asst. chief Div. For., U. S. Dept. Agr., 1895–8; prof. agr. and hort., N. Mex. A.& M. Coll., 1899–1900; prof. hort. and for., Univ. Tenn., 1900–15; dir. ext., 1915—. *b.* Des Moines, Ia., June 11, 1861; *s.* S. B. and Rebecca (Kagey) K.; reared in city. Special course, Ia. State Coll;. Mast. Hort., 1887.

Kegley, Estel Stephen, co. agrl. agt., Parsons, W. Va.

Co. agt., Tenn., 1 yr.; Ky., 2 yrs. *b.* Wytheville, Va., Jan. 25, 1886; *s.* Stephen A. and Elizabeth (Umberger) K.; reared on farm; *m.* Ruth Ella Brown, Oct. 31, 1917. B.S., Va. Poly. Inst., 1909.

Keil, Philip Francis, co. agrl. agt., Mount Holly, N. J.

Asst., L. I. R. R. Exp. Stas., Medford, 4½ yrs.; lands. work, I. Hicks & Son, Westbury, 2 yrs. *b.* Farmingdale, L. I., Aug. 31, 1888; *s.* Chas. Gunther and Frances (Corsa) K.; reared on farm; *m.* Pearl Lawrence Price, Apr. 24, 1915. Special student, Syracuse Univ.

Keim, Franklin David, assoc. prof. agron., Univ. Neb., Lincoln, Neb.

Supt. public schs., 2 yrs. *b.* Hardy, Neb., Sept. 10, 1886; *s.* Dennis and Jennie (Cramer) K.; reared on farm; *m.* Alice Voigt, June 12, 1914; *c.* Virginia. B.Sc., Univ. Neb., 1914. Alpha Zeta.

Keitt, George Wannamaker, assoc. prof. plant. path., Univ. Wis., Madison, Wis.

Lect. plant path., Univ. Wis., 1913–4; asst. prof., 1914–7; assoc. prof., 1917—. *b.* Newberry, S. C., June 11, 1889; *s.* Thomas Wadlington and Annie (Wannamaker) K.; reared on cotton plantation. B.S., Clemson Agr. Coll., 1909; M S., Univ Wis., 1911; Ph.D., 1914. Sigma Xi; Gamma Alpha; Phi Eta.

Keitt, Thomas Ellison, prof. soils and chem. Exp. Sta., Clemson Agr. Coll., Clemson College, S. C.

Asst. chem., Conn. Exp. Sta., 1907; asst. chem., S. C. Fert. Control Lab., 1907–8; chem., S. C. Exp. Sta., 1908—; prof. soils, Clemson Agr. Coll., 1913—. First pres. S. C., Sect. Am. Chem. Soc. Fellow A. A. A. S. *Auth.:* Chemistry of Farm Practice, 1917. *b.* Newberry, S. C., Dec. 20, 1885; *s.* Thomas Wadlington and Annie (Wannamaker) K.; reared on farm; *m.* Lena Hardin, Aug. 5, 1914; *c.* Thos. Wadlington. B.S., Clemson Agr. Coll., 1906.

Kellerman, Karl Frederic, assoc. chief Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Asst. bot., Cornell Univ., 1900–1; asst. physiologist, Bur. Plant Ind., 1901–4; physiologist in chg. lab. of plant physiology, 1905–6; chg. soil bact. and water purification invests., 1906–14; asst. chief, 1914—. Fellow A. A. A. S. *b.* Goettingen, Germany (of American parents), Dec. 9, 1879; *s.* Wm. Ashbrook and Stella V. (Dennis) K.; *m.* Gertrude Hast, Aug. 17, 1905. S.B., Cornell Univ., 1900. Sigma Xi; Delta Upsilon.

Kelley, John, dir. rural educ. dept., Cent. Mich. Normal Sch., Mt. Pleasant, Mich.

Dir. Training Sch., Cent. Mich. Normal, Mt. Pleasant, Mich., 1897–9, 1905–13; present title, 1913—. *b.* Palmyra, N. Y., Aug. 31, 1868; *s.* Martin and Mary (Brophy) K.; reared on farm; *m.* Minta E. Spencer; *c.* Spencer D., Paul H., Eva May, Mary Elizabeth. M.A., Columbia Univ., 1905.

Kelley, Walter Pearson, prof. agrl. chem., Univ. Calif. Citrus Exp. Sta., Riverside, Calif.

Asst. chem., Purdue Exp. Sta., 1905–8; chem., U. S. Dept. Agr., Hawaii Exp. Sta., 1908–14; present position, 1914—. *Asst. ed.,* Journal American Society of Agronomy. *b.* Franklin, Ky., Feb. 19, 1878; *s.* John Wm. and Mary Eliza (Mayes) K.; reared on farm; *m.* Sue Kathrine Eubank, Aug. 6, 1913. B.S., Univ. Ky., 1904; M.S., Purdue Univ., 1907; Ph.D., Univ. Calif., 1912. Sigma Xi; Alpha Tau Omega.

Kellogg, William Lorenzo, asst. dairy husb., Bur. An. Ind., U. S. Dept. Agr., Washington, D. C.

b. Titusville, Pa., May 19, 1889; *s.* W. W. and Laura Janet (Rote) K.; reared in town; *m.* Fannie F. Cooper, Oct. 24, 1917. B.S., Penn. State Coll., 1913. Phi Kappa Phi.

Kelsey, Lincoln David, co. agrl. agt., 244 Main St., Springfield, Mass.

Market gardener, Hartford, Conn., 4 yrs. Sec. convention com., Veg. Growers' Assoc. of Am., 1917. In U. S. Army, 1918—. *b.* Saratoga Springs, N. Y., May 22, 1894; *s.* David S. and Elnora L. (Isbell) K.; reared on farm. B.S., Mass. Agr. Coll., 1917. Alpha Gamma Rho.

Kelso, Floyd Lee, farm supt., U. S. Dept. Agr , Ardmore, S. D.

b. Willard, Mo., Sept. 12, 1881; *s.* H. T. and Mary Ellen (Kime) K.; reared on farm. B.S.A., Univ. Mo., 1907.

Kempster, Harry Laverne, assoc. prof. poultry husb., Univ. Mo., Columbia, Mo.

Instr. poultry husb., Mich. Agr. Coll., 1909–11; asst. prof., Univ. Mo., 1911–3; assoc. prof., 1913. *b.* Coldwater, Mich., Oct. 6, 1883; *s.* Stephen W. and Eliza (Peppiatt) K.; reared on farm; *m.* C. Ruth Curts, Apr. 11, 1914; *c.* Elizabeth Curts, John Stephen. B.S.A., Mich. Agr. Coll., 1909. Alpha Zeta; Gamma Sigma Delta.

Kendall, George Brophy, co. agrl. agt., Jacksonville, Ill.

Teach. agr. and rural sociol., State Normal Sch., Moorhead, Minn., 1912–8. *b.* Adams Co., Ill., May 17, 1876; *s.* Chas. A. and Mary (Frame) K.; reared on farm; *m.* Emma H. Rickart, June 27, 1906; *c.* Chestine, Jean, Ruth. B.S., Univ. Ill., 1912. Kappa Delta Pi.

Kendall, John Chester, dir. N. H. Exp. Sta. and dir. ext. serv., N. H. A.&M. Coll., Durham, N. H.

Chg. short course in dairying, N. C. A. & M. Coll., winter, 1902; instr. and asst. prof. dairy husb., 1902–7; state dairy comnr. of Kans., Jul.-Dec. 1907; prof. dairy husb., Kans. State Agr. Coll., 1907–10; dir. N. H. Exp. Sta., 1910—; dir. ext. serv., 1911—. *b.* Harrisville, N. H., Mar. 13, 1877; *s.* Gilman and Lucy

Ann (Felch) K.; reared on farm; *m.* Marjorie Louise Foster, Oct. 2, 1912. B.S., N. H. A. & M. Coll., 1902. Kappa Sigma.

Kendall, William B., farmer and fertilizer manufacturer, Bowdoinham, Me.
Mem. Me. Legislature, 1907. *b.* Bowdoinham, Me., Oct. 19, 1855; *s.* James Madison and Emily (Whitten) K.; reared in village; *m.* Ella C. Adams, Feb. 19, 1896.

Kendrick, William Henry, state agt. boys' agrl. clubs, W. Va. Univ., Morgantown, W. Va.
b. Selma, Ala., May 7, 1882; *s.* J. S. and Martha (Woolery) K.; reared on farm and in city; *m.* Olive M. Garrison, Aug. 8, 1901; *c.* James G., Martha, Oliva. A.B., Central Univ., 1903; B.S., W. Va. Univ., 1915. Beta Theta Pi.

Kenety, William Henry, supt. For. Exp. Sta., Cloquet, Minn.
b. Fulda, Minn., Apr. 24, 1886; *s.* W. H. and Annie (Powers) K.; reared on farm; *m.* Ava I. Collier, Aug. 4, 1914; *c.* Kathleen. B.F., Univ. Minn., 1911; M.S., 1912. Sigma Xi; Alpha Zeta.

Kennedy, Carl Nelson, co. agrl. agt., Des Moines, Ia.
Instr. an. husb., Tex. A.&M. Coll., 1912–4; asst. prof. an. husb., Ore. Agr. Coll. 1914–7; agrl. agt. Polk Co., Ia., 1917—. Sec. Ore. Stallion Registration Bd.; sec. Ore. Horse Breeders' Assoc. *Auth.*: (with E. L. Potter) Horse Management, 1915. *b.* Ankeny, Ia., Jan. 21, 1889; *s.* J. W. and Anna (Tait) K.; reared on farm; *m.* Mae Irvine, 1915; *c.* Richard Irvine. B.S., Ia. State Coll., 1912. Alpha Zeta.

Kennedy, Patrick Beveridge, assoc. prof. agron., Univ. Calif., Berkeley, Calif.
Asst. chem., Ont. Agr. Coll., 1896; asst. Div. Agrostology, U. S. Dept. Agr., 1899–1900; assoc. prof. bot., hort. and ent., Univ. Nev., 1900–2; prof. bot., hort. and for., 1902–13; asst. prof. agron., Univ Calif., 1914–6; assoc. prof., 1917—. Pres. Calif. Bot. Soc., 1916–8. *b.* Mount Vernon, Lanarkshire, Scotland, June 17, 1874; *s.* Geo. Penrose and Kate Butler (Watt) K.; reared in country; *m.* Clara M. French, June 13, 1900; *c.* Kate B., Margaret F., Jean M., P. B. Jr., Robt. D. B.S.A., Toronto Univ., 1894; Ph.D., Cornell Univ., 1899. Phi Kappa Phi.
[Kennedy, W. J., p. 311.

Kenney, Ralph, ext. specialist crops, Kans. State Agr. Coll., Manhattan, Kans.
Asst. agron., Univ. Ky., 1912–3; asst. prof. farm crops, Kans. State Agr. Coll., 1914–7; grass invest. in Paraguay, for Central Products Co., N. Y., June–Dec. 1917; distr. agrl. agt., Manhattan, Kans., Dec. 1917–Aug. 1918; present position, Sept. 1918—. *b.* Centerville, O., Oct. 21, 1889; *s.* P. F. and Mary (Swadener) K.; reared on farm; *m.* Ida Virginia Wroten, Jul. 15, 1914. B.S., Ohio State Univ., 1912. Alpha Zeta.

Kent, Harry Llewellyn, princ. Sch. Agr. and assoc. prof. agrl. educ., Kans. State Agr. Coll., Manhattan, Kans.
Student asst., State Normal Sch., Emporia, Kans., 1903–4; teach. sci. and agr., Hays State Normal, 1904–9; teach. nature-study and agr., State Normal Sch., Keene, N. H., 1909–11; dir. correspondence study, Kans. State Agr. Coll., 1911–3; present position, 1913—. State dir. voc. agr., 1918—. Mem. state com. on agrl. educ. for Smith-Hughes fund. *Auth.:* (with Call) Agriculture, Kansas State Text for Rural Schools. *b.* Belleville, Kans., Nov. 27, 1879; *s.* Geo. C. and Lisetta A. (Pfaff) K.; reared on farm; *m.* Ursula B. Dickinson, Aug. 7, 1907; *c.* Harry L. Jr., Geo. Clarence, Lisetta L., Richard F. A.B., Kans. State Normal, 1912; B.S., Kans. State Agr. Coll., 1913. Phi Kappa Phi; Alpha Zeta.

Kercher, Otis, state leader boys' agrl. work, Univ. Ky., Lexington, Ky.
Teach. agr., high-sch., Homer, La., 1914; agrst., La. Ind. Inst., Ruston, 1914–5; present position, 1915—. *b.* Goshen, Ind., Sept. 9, 1892; *s.* Abraham and Anna (Buzzard) K.; reared on farm; *m.* Genevieve Williams, Dec. 31, 1914. B.S., Univ. Ill.
[Kern, F. D., p. 311.

Kern, Olly Jasper, asst. prof. agrl. educ., Univ. Calif., Berkeley, Calif.
Princ. Cherry Valley public schs., Ill., 1888–91; instr. Rockford high-sch., 1891–8; supt. schs., Winnebago Co., Ill., 1898–1913; present position, 1913—. Mem. com. on ind. educ. and com. on reorganization of secondary schs., Nat. Educ. Assoc. *Auth.:* Among Country Schools,

1906. *b.* near Mattoon, Ill., Jan. 1, 1861; *s.* John A. and Elizabeth Ann (Armentrout) K.; reared on farm; *m.* Jessie C. Allen, Aug. 6, 1889; *c.* Esther, Evans, Louise, Russell. Student, DePauw Univ., 4 yrs. Phi Delta Theta.

Kerr, John Steele, nurseryman, Sherman, Tex.

Farmer, Tex., 1865—; began nursery business, 1874; founder and pres. Commercial Nursery and Orchard Co. until 1906, merged into Tex. Nursery Co.; first vice-pres. Tex. Nursery Co. Inc. Pres. Tex. Nurserymen's Assoc., 1913–4, sec.-treas., 12 yrs.; ex-pres. Tex. State Hort. Soc. Served in Civil War. *Auth.:* Southwestern Horticulture, 1st, 2d, 3d ed., 1906–14. *b.* Columbia, Tenn., Jan. 15, 1847; *s.* Green Williamson and Mariah (Henderson) K.; *m.* Amelia Rutherford Murray, Nov. 18, 1874; *c.* Mrs. J. L. Thompson, Mrs. R. E. Vinson, Ruth, Mrs. W. B. Munson Jr.

Kerr, Leonard Jasper, co. agrl. agt., Selmer, Tenn.

b. Savannah, Tenn., Feb. 20, 1892; *s.* T. S. and Lucy (Seaton) K ; reared on farm. Student Univ. Tenn.

Kester, Reuben Perry, assoc. ed. Pennsylvania Farmer, Philadelphia, Pa.

Farmer, 15 yrs. State leader Pa. farmers' insts., 5 yrs. *b.* Clearfield Co., Pa., Jan. 18, 1869; *s.* Lewis and Alice (Wall) K.; reared on farm; *m.* Myrtle M. Davis, Aug. 1894; *c.* Elisha Howard, Lucretia Mott.

Keyes, Helen Johnson, writer and ed., Wadsworth Hall, Rosebank, Staten Isl., N. Y.

Translator: A Monk of the Aventine, 1896; Life of Napoleon III, 1899. *Auth.:* Mother Wisdom, 1917; Motherhood in the Country, 1918. Contributor to Farm Wisdom, 1918. On editorial staff, Farm and Fireside, Springfield, O., Farmer's Wife, St. Paul, Minn., Good House-Keeping, N. Y. City. Traveled in Europe. *b.* N. Y. City, June 19, 1879; *d.* Oliver and Jane (Abbott) Johnson; reared in city; *m.* John M. Keyes, 1906; *c.* Oliver Johnson, John M., Jane Abbott.

Keyes, Lynn Sumner, co. agrl. agt., Kelso, Wash.

Instr. sci., Kelso high-sch., Wash., 1916–7; agt. Cowlitz Co., 1917—. *b.* Montevideo, Minn., Aug. 22, 1893; *s.* Ruthven S. and Mary L. (Manuel) K.; reared on farm. B.S.A., Wash. State Coll., 1916. Alpha Zeta.

Kezer, Alvin, prof. agron., and farm manag. and chm. Div. Agr., Colo. Agr. Coll., Fort Collins, Colo.

With U. S. Dept. Agr., 1904–6; chg. soils, Univ. Neb., 1906–9; prof. agron., Colo. Agr. Coll., 1909—; chm. Div. Agr. and farm manag., 1910—. Chm. seed com., Colo. Adv. Council Defense. *b.* Bower, Neb., Nov. 7, 1877; *s.* Geo. F. and Clara E. (Bower) K.; reared on farm; *m.* Harriet M. Mitchell, June 19, 1906; *c.* Munro, James. B.S., Univ. Neb., 1904; M.S., 1906. Sigma Xi; Alpha Zeta.

Kidder, Albert F., prof. agron., La. State Univ., Baton Rouge, La.

Asst. soil physics, Univ. Ill., 1906–7; asst. prof. agron., La. State Univ., 1907–10; prof., 1910—. Fellow A. A. A. S. Sec. La. Corn Growers' Assoc. *b.* Good Hope, Ill., Apr. 2, 1881; *s.* Frank and Fidelia (Fink) K.; reared on farm; *m.* Inez Hyams, Jan. 21, 1909. B.S., Univ. Ill., 1906. Sigma Xi; Alpha Zeta.

Kidder, Waldo, co. agrl. agt., Walsenburg, Colo.

b. Melrose, Ia., Dec. 9, 1894; *s.* E. M. and Anna (Halsey) K.; reared on farm and in town. B.S., Colo. Agr. Coll., 1917. Sigma Rho Delta; Alpha Zeta.

Kidman, Carl May, co. agrl. agt., Onaway, Mich.

b. Clyde, O., Aug. 15, 1889; *s.* Simon G. and Ida (May) K.; reared on farm; *m.* Stella Elizabeth Older, Sept. 27, 1911; *c.* Lorena Belle. B.S., Mich. Agr. Coll., 1917.

Kienholz, William S., superv. agr. in intermediate and high-schs., Pasadena, Calif.

Teach. biol. sci., high-sch., Crookston, Minn., 1900–1; teach. sci. and athletics, Lombard Coll., 1901–3; N. C. A.&M. Coll., 1903–4; teach. athletics, Univ. Colo., 1905–6; biol. and athletics, Wash. State Coll., 1908–9; supt. agr., Pasadena, Calif., 1912–7; Los Angeles, 1918—. Pres. Pasadena Civic Assoc. *b.* Karson, Minn., Oct. 22, 1875; *s.* Ulrich and Kath (Grossman) K.; reared in city and on

farm; *m.* Maude J. Fitch, 1902. A.B., Lombard Coll.; B.S., Univ. Minn. Sigma Phi Epsilon.

Kildee, Henry Herbert, head dept. an. ind., Ia. State Coll., Ames, Ia.

Instr. an. husb., Ia. State Coll., 1909; experimentalist, 1909–10; assoc. prof., 1910–5; prof., 1915–6; chief dairy husb. div., Univ. Minn., 1916–8; present position, 1918—. Mem. editorial staff, Dairy Science. *b.* Osage, Ia., Mar. 1, 1884; *s.* M. and Lucy A. (Stone) K.; reared on farm; *m.* Ruth E. Sweney, Feb. 16, 1910; *c.* Regina. B.S.A., Ia. State Coll., 1908; M.S.A., 1917. Alpha Zeta; Delta Upsilon; Phi Kappa Phi; Gamma Sigma Delta.

Kile, Orville Merton, eastern editorial manag., Soil Improvement Com., Nat. Fertilizer Assoc., 1428 Munsey Bldg., Baltimore, Md.

Lect. agrl. ext., Ohio State Univ., 1912–3; agrl. ed., W. Va. Univ., 1913–6; asst. editorial manag., Soil Improvement Com., 1916–7; present position, 1917—. *b.* New Vienna, O., Feb. 17, 1886; *s.* Morris and Morrie (Zinn) K.; reared on farm and in city. B.S., Ohio State Univ.

Kilgore, Benjamin Wesley, dir. Exp. Sta. and ext. serv., N. C. A.&M. Coll., Raleigh, N. C.

Asst. prof. chem., Miss. A. & M. Coll., 1888–9; asst. chem., N. C. Exp. Sta., 1889–97; prof. chem., Miss. A. & M. Coll. and state chem., 1897–9; state chem., N. C., 1899—; dir. N. C. Exp. Sta., 1901–7, 1912—; dir. ext. serv., 1914—. Mem. State Bd. for Voc. Educ. Pres. Assoc. Official Agrl. Chem., 1899–1900. *b.* Lafayette Co., Miss., Mar. 27, 1867; *s.* Benjamin Moon and Susan (Bruce) K.; reared on farm; *m.* Elizabeth Carrington Dinwiddie, Aug. 10, 1898; *c.* Elizabeth Carrington, Benjamin Wesley, James Dinwiddie. B.S., Miss. A. & M. Coll., 1888; M.S., 1891. Sigma Alpha Epsilon.

Kimble, John Haines, farmer and dairyman, Port Deposit, Md.

Clerk for grain dealer, 1878–82; teller Cecil Nat. Bank, Port Deposit, 1882–1900. Sec. Jacob Tome Inst., 1900–15; treas., 1915—. Mem. Md. House of Delegates, 1900; mem. bd. dir., Md. Penitentiary, 1908–16; manag. Mutual Fire Insurance Co. of Cecil Co. Asst. sec. Farmers' Nat. Congress, 1905–11; sec., 1911–3; legislative agt., 1914—; pres., 1918—. *b.* Nottingham, Pa., Oct. 26, 1860; *s.* Anson Bennett and Mary Hannah (Kirk) K.; reared on farm; *m.* Mary Jane Tome, Jan. 31, 1883; *c.* Chester Tome, Annie May. Student Eastman Business Coll., Poughkeepsie, N. Y.

Kime, Charles D., co. agrl. agt., Titusville, Fla.

Farmer and citrus grower, 1912—. *b.* Petersburg, Ind., Jan. 13, 1890; *s.* R. R. and Hope (Davidson) K.; reared in city; *m.* Mabel Clare Van Hooser, Mar. 5, 1914; *c.* Chas. D. Jr. B.S., Univ. Fla., 1912. Alpha Tau Omega.

King, Asa Carlton, prof. farm practice, Cornell Univ., Ithaca, N. Y.

Manager fruit-farm, N. Y., 1899–1915. Instr. ext. schs., winters, 1911–4; farmers insts., 1909–11. Vice-pres. N. Y. State Fruit-Growers' Assoc., 4 yrs. *b.* Trumansburg, N. Y., Jul. 24, 1877; *s.* Tertillus H. and Harriet (Robinson) K.; reared on farm; *m.* Viola Doyle, Oct. 9, 1905; *c.* Dorothy, Edythe. B.S.A., Cornell Univ., 1899.

King, Edward R., asst. prof. apiculture, Cornell Univ., Ithaca, N. Y.

In U. S. Army, 1918—. *b.* Creola, O., Oct. 10, 1890; *s.* Silas D. and Sallie E. (Lyons) K.; reared on farm. B.S., Ohio State Univ., 1915. Gamma Alpha.

King, Louisa Yeomans, writer and flower-gardener, Alma, Mich.

Pres. Women's Nat. Farm and Gard. Assoc.; vice-pres. The Gard. Club of Am.; dir. in Women's Land Army of Am. Mem. Women's Com., Mich. Div., Council Nat. Defense. Fellow Royal Hort. Soc. of Great Britain. *Auth.;* The Well-Considered Garden, 1915. *b.* Washington, N. J., Oct. 17, 1863; *d.* Alfred and Elizabeth (Ramsay) Yeomans; reared in town; *m.* Francis King, 1890; *c.* Elizabeth, Henry W.

Kinghorne, Joseph William, poultry husb., Bur. An. Ind., U. S. Dept. Agr., Washington, D. C.

Farmer, Howard Co., Md., 1911–2; teach., Univ. Va., summers 1913–4; prof. poultry husb., Va. Poly. Inst., 1913–4. *b.* Cumberland, Md., Apr. 16, 1890;

s. William and Margaret (Farber) K.; reared on farm and in city; *m.* Edna May Sibley Hutson, June 25, 1913. B.S.A., Md. Agr. Coll., 1911.

Kingman, Frederic W., dir. Norfolk Co. Agrl. Sch., Walpole, Mass.
Princ. grammar schs., Hyannis, W. Barnstable, S. Easton, Mass., 1889–90; private teaching, 1890–3; clerical work, 1893–6; supt. schs., Barnstable, 1896–1905; Medfield, 1905–8; Walpole, 1905–16; present position, 1916—. *b.* Bridgewater, Mass., Jul. 27, 1868; *s.* Wm. B. and Georgianna S. (Jackson) K.; reared on farm; *m.* Bertha Kent Cushman, June 30, 1898; *c.* Harriet. A.B., Harvard Univ., 1910.

Kinney, Edmund J., assoc. prof. agron., Univ. Ky., Lexington, Ky.
Asst. ent. and bot., Ky. Exp. Sta., 1908–11; asst. prof. agron. and asst. agron. Exp. Sta., Univ. Ky., 1911–6; assoc. prof., 1916—. *b.* Yellow Springs, O., Dec. 26, 1879; *s.* Mathias and Sara Ellen (Applegate) K.; reared on farm; *m.* Kathryn Petrey, 1908; *c.* Frances Ware, Sara Kathryn. B.S.A., Ohio State Univ., 1908. Alpha Gamma Rho.

Kinsman, Claude Dennison, assoc. prof. agrl. engin., Univ. Neb., Lincoln, Neb.
Asst. agrl. engin., Purdue Univ., 1912–4; instr., 1914–6; rural ext. engin., 1916–8; present position, 1918—. *b.* Polk Co., Neb., Mar. 9, 1889; *s.* James W. and Elizabeth (Silkett) K.; reared on farm; *m.* Margaret E. Gamble, Sept. 3, 1915. B.S., Univ. Neb., 1912; M.S.A., Purdue Univ., 1916. Sigma Tau.

Kirby, William Livingston, co. agrl. agt., Chamber of Commerce, Richmond, Va.
Teach., Caroline Co. high-sch., Md., 1911–3. *b.* Smyrna, Del., Jan. 2, 1886; *s.* Thos. and Bessie (Bradley) K.; reared on farm; *m.* Mary J. Cowherd, Dec. 23, 1916; *c.* Hilda Elizabeth. B.S.A., Del. Coll., 1911.

Kirkham, James Mercer, publisher Utah Farmer, Lehi, Utah.
Pres. State Newspaper Assoc.; sec. State Development League. Field rep., Food Administration. *b.* Lehi, Utah, Nov. 18, 1872; *s.* James and Martha (Mercer) K.; reared in small town; *m.* Kate Woodhouse, June 14, 1893; *c.* J. Arno, Zelda Kate, Martha, Alice Emma, Elbert C., Alden J., Earl Kay, Bessie J., ElMoen.

Kirkpatrick, Elbert Wiley, farmer, McKinney, Tex.
Pres. Tex. Ind. Congress. Maj.-Gen. U. C. V. Assoc. of Tex. *b.* Jefferson Co., Tenn., Oct. 12, 1844; *s.* Jacob M. and Sarah Jane (Campbell) K.; reared on farm; *m.* Emily T. Clive, Nov. 5, 1874; *c.* Ray H., Lee Roy, Alice, Sara.

Kirkpatrick, Ellis Lore, asst. prof. and by-products specialist, Colo. Agr. Coll., Fort Collins, Colo.
Rural sch. teach., Ia., 4 yrs.; princ. high-sch., 1 yr.; asst. prof. veg. gard., Cornell Univ., 1915–8; present position, 1918—. Chm. com. to invest. dehydration of vegetables, N. Y. State Veg. Growers' Assoc., 1918. *Asst. ed.*, Farmers' Cyclopedia, Nov. 1917–Jan. 1918. *b.* S. English, Ia., Aug. 21, 1884; *s.* Martin V. and Fannie Virginia (Beery) K.; reared on farm; *m.* Grace Mae Martfeld, Aug. 26, 1915. B.S.A., Ia. State Coll., 1914.

Kirkpatrick, Kemper Austin, asst. co. agt. leader, Univ. Minn., University Farm, St. Paul, Minn.
Instr. hort., Wash. State Coll., 1909–10; ext. hort. specialist, Univ. Minn., 1910–3; agt. Muscatine Co., Ia., 1913–4; agt. Hennepin Co., Minn., 1914–7; present position, 1917—. Dir. Nat. Milk Producers' Assoc. *b.* S. English, Ia., Aug. 8, 1878; *s.* Martin Valentine and Francis Virginia (Beery) K.; reared on farm; *m.* Clara Anita Estabrook, June 25, 1913; *c.* Elizabeth Anita, Kemper Estabrook. B.S.A., Ia. State Coll., 1909. Delta Tau Delta; Delta Theta Sigma.

Kirkpatrick, Martin Glenwood, assoc. ed. The Farm Journal, Philadelphia, Pa.
Rural sch. teach., 4 yrs. Farm ed., Des Moines Register, 1917. *b.* S. English, Ia., Dec. 18, 1880; *s.* Martin and Frances (Beery) K.; reared on farm. B.Sc., Ia. State Coll., 1917. Gamma Sigma Delta; Sigma Delta Chi.

Kirkpatrick, William F., prof. poultry husb., Conn. Agr. Coll., Storrs, Conn.
Asst. poultry husb., R. I. Exp. Sta., 1905–9; instr., Miss. A.& M. Coll., 1910–2; present position, 1913—. *b.* Mecklen-

burg Co., N. C., Apr. 9, 1880; *s.* John Moore and Gussie (Burns) K.; reared on farm; *m.* Grace E. Hovey, Oct. 30, 1909; *c.* Henry H., Ruth H. B.E., N. C. A. & M. Coll., 1904; B.Agr., 1905. Kappa Alpha.

Kirkwood, William Paul, ed. and prof. journalism, Univ. Minn., University Farm, St. Paul, Minn.

Prof. math., Macalester Coll., St. Paul, 1892–3; business position, 1893–7; with Minneapolis Journal, 1897–1907; special newspaper and magazine writer, 1907–13; country life ed., Minneapolis Journal, 1913–4; present position, 1914—. *b.* Cross Creek, O., Jan. 9, 1867; *s.* Wm. R. and Rebecca (Gray) K.; reared in town; *m.* Virginia Rose, Sept. 14, 1892 (d. 1901); 2d, Edith Brown Kirkwood, Jan. 21, 1915; *c.* Samuel Brown. B.A., Macalester Coll. 1890. Beta Theta Pi; Sigma Delta Chi.

Kirshman, Irving, co. agrl. agt., L'Anse, Mich.

b. Allegan Co., Mich., Jan. 10, 1886; *s.* J. Fred and Nancy (Sheffield) K.; reared on farm; *m.* Nina Belle Rose, Oct. 20, 1915; *c.* Kenneth Robt. B.S., Mich. Agr. Coll., 1914. Alpha Zeta.

Kittell, Albert George, ed. Nebraska Farm Journal, 1473 Evans St., Omaha, Neb.

City ed., Manhattan, Kans., Nationalist, 1908–9; assoc. ed., Farmers' Mail and Breeze, 1909–14; present position, 1914—. Farmer in Kans. and Md. *b.* Blossom, N. Y., Apr. 2, 1881; *s.* Henry and Mary (Wolf) K.; reared on farm; *m.* Marie Fenton, June 21, 1911; *c.* Marjorie. B.S., Kans. State Agr. Coll., 1909.

Kleinheinz, Frank, asst. prof. in chg. sheep dept., Univ. Wis., Madison, Wis.

With Univ. Wis., 1890—. Treas. Wis. Sheep Breeders' Assoc., 9 yrs. Traveled through Europe studying sheep husb. *Auth.:* Sheep Management, 1911; Sheep Management, Breeds and Judging, 1916. *b.* Bavaria, Germany, Sept. 13, 1855 (naturalized 1888); *s.* Frank and Margaret (Kleinheinz) K.; reared on farm; *m.* Kunigunda Kleinheinz, Nov. 24, 1885; *c.* Caroline, Monica, Adelaide, Milly, Frances, Theresa, Frank Jr.

Klinck, Merle S., asst. prof. agrl. engin., Conn. Agr. Coll., Storrs, Conn.

b. Hebron, O., Mar. 30, 1894; *s.* Geo. Edward and Emma Catherine (Messmore) K.; reared on farm; *m.* Irene E. Hey, May 24, 1916. B.S.A., Ohio State Univ., 1916. Beta Alpha Chi.

Klinka, John Simandl, co. agrl. agt., Balsam Lake, Wis.

Dir. agr., high-sch., Little Falls, Minn., 1913–4. Organizer of five farmers' clubs in Minn. *b.* West Bend, Wis., May 6, 1882; *s.* Frank and Mary (Simandl) K.; reared on farm; *m.* June 3, 1919; *c.* Mary Mae. B.S., Univ. Wis., 1913.

Knapp, Bradford, chief Off. of Ext. Work in South, States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Investigational trip to Europe 1913, for U. S. Dept. Agr., studying rural organization and credit. Special attention to rural econ., organization, farm dem. work, co. agts., home dem. work, boys' and girls' clubs, ext., etc. Continued work of his father in co. agt., and home dem. work for women and girls, and instituted direct cooperation between U. S. Dept. Agr. and state colleges of agr., covering all extension work. *b.* Vinton, Ia., Dec. 24, 1870; *s.* Seaman A. and Maria E. (Hotchkiss) K.; reared on farm; *m.* Stella White Davis, Jul. 20, 1904; *c.* Bradford Jr., Marian C., DeWitt L., Roger Seaman. B.S. Vanderbilt Univ., 1892; LL.B., Univ. Mich., 1896; D.Agr., Md. State Coll. Agr., 1918. Kappa Alpha.

Knapp, Forrest Parker, territorial town and country for Ont. and Que., Y. M. C. A. sec., 120 Bay St., Toronto, Ont.

b. N. Adams, Mich., May 18, 1882; *s.* John and Francelia (Shepard) K.; reared on farm; *m.* Evelyn D. Gates, 1908; *c.* Delcie May, Helen Mildred, Francelia Ruth, Evelyn Elizabeth. Ped. B., A.B., Hillsdale Coll., 1907. Alpha Tau Omega.

Knapp, Halsey B., dir. N. Y. State Sch. Agr., Cobleskill, N. Y.

Instr. pom., Cornell Univ., 1913–4; asst. prof., 1915–6; present position, 1916—. *b.* Port Byron, N. Y., Sept. 1, 1888; *s.* Halsey and Anna (Bowles) K.; reared on farm; *m.* S. Gertrude Newkirk, Apr. 5, 1913; *c.* Merrill, Dorothy. B.S.,

Cornell Univ., 1912; M.S., 1913. Alpha Zeta; Gamma Alpha.

Knapp, J. Oliver, co. agrl. agt., West Union, W. Va.

Asst. dairy dept., W. Va. Univ., 1914–5; princ. Richwood high-sch., W. Va., 1916–7; present position, 1917—. *b.* Greenbrier Co., W. Va., Dec. 19, 1892; *s.* W. F. and Virginia (Dunbar) K.; reared in country town. B. S. A., W. Va. Univ., 1915. Phi Sigma Kappa.

Knight, Albert Arthur, agrl. rep., Lindsay, Ont.

Farmer, Ont., 1911–2. *b.* Brackenrig, Ont., Dec. 6, 1881; *s.* Thos. W. and Mary O. (Magor) K.; reared on farm; *m.* Jessie Skinner, Apr. 12, 1911; *c.* John Albert. B.S.A., Ont. Agr. Coll., 1909.

Knight, Charles Strongman, dean Coll. Agr. and prof. agron., Univ. Nev., Reno, Nev.

Asst. feed and fert. insp., Univ. Wis., Jul.–Dec., 1907; asst. agron., Kans. State Agr. Coll., 1908–9; instr. agron., Univ. Nev., 1909–10; asst. prof., 1910–2; supt. State Dry Farm, Elko Co., 1911–2; chief agrst., Nev. Sugar Co., 1912–3; prof. agron., Univ. Nev., 1913—; dean Coll. Agr., 1914—; dir. agrl. ext., 1914–5. State del. to 4th and 6th Inter. Dry-Farming Congresses; mem. Jury awards, agr., Panama-Pacific Expos., 1915; chm. State Com. Food Production and Conservation, 1917; fed. state dir. Pub. Serv. Res., U. S. Dept. Lab., 1918; state leader Nev. War Gardens, 1918; mem. State Council of Defense, 1918. *b.* Wis., Jul. 11, 1884; *s.* John and Millie E. (Coad) K.; reared on farm; *m.* Virginia C. Kemler; *c.* three. B.S.A., Univ. Wis., 1907. Sigma Nu.

Knight, Henry Granger, dean Coll. Agr. and dir. Exp. Sta., Okla. A.&M. Coll., Stillwater, Okla.

Instr. chem., Univ. Wash., 1901–2; asst. prof., 1903–4; prof. chem., Univ. Wyo., 1904–10; state chem., Wyo., 1904–11; dir. Exp. Sta. and prof. agrl. chem., 1910–8; dean Coll. Agr., 1912–8; present position, 1918—. *Auth.:* Notes on Qualitative Analysis, 1906. *Ed.*, Wyo. Farm Bull. until 1915. *b.* Bennington, Kans., Jul. 21, 1878; *s.* Edwin Richard and Elva Maud (Edwards) K.; reared on farm; *m.* Nellie Elizabeth Dryden, June 28, 1905; *c.* Richard Dryden. B.A., Univ. Wash., 1902; M.A., 1904; Ph.D., Univ. Ill., 1917. Phi Gamma Delta; Phi Lambda Upsilon.

Knight, Howard Lawton, assoc. ed. Experiment Station Record, States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Instr. chem., Mass. Agr. Coll., 1902–3; instr. English, 1903–4; asst. chem., Wesleyan Univ., 1904–5; asst. nutr. invest., U. S. Dept. Agr., 1904–6; asst. ed. Experiment Station Record, 1906–18; assoc. ed., 1918—. Treas. Am. Home Econ. Assoc., 1911–2. *b.* Gardner, Mass., Sept. 29, 1881; *s.* Willis E. and Lyra S. (Brigham) K.; reared on farm; *m.* Cora Isabelle Stickney, Aug. 20, 1906. B.S., Mass. Agr. Coll., 1902; Boston Univ., 1902. Alpha Sigma Phi; Phi Kappa Phi.

Knock, Frans Edwin, co. agrl. agt., Benson, Minn.

Teach. sci., high-sch., Cokato, Minn., 1912–3; agrl. dir. consolidated schs., Wheaton, 1915–8; agt. Swift Co., 1918—. *b.* Gowrie, Ia., Jan. 21, 1882; *s.* Carl G. and Anna Louisa (Lindquist) K.; reared on farm; *m.* Ruth Angelica Abrahamson, June 28, 1918. A.B., Gustavus Adolphus Coll., 1912; B.S.Agr., Univ. Minn., 1915.

Knorr, John William, asst. co. agt. leader, N. Mex. A.&M. Coll., State College, N. Mex.

Chg. agrl. dept., Logan Co. high-sch., Stirling, Colo., 1913–4; sci. asst., U. S. Dept. Agr., 1914–5; agt. Eddy Co., N. Mex., 1915–8. *b.* Chicago, Ill., Aug. 26, 1890; *s.* Wm. Franklin and Elizabeth (Burke) K.; reared in city and on farm; *m.* Ruth I. Brainard, Jul. 15, 1915; *c.* John Wm. Jr., Rex Brainard. B.S., N. Mex. A.&M. Coll., 1913.

Knowlton, Helen, prof. home econ. and head dept., dean of women, N. H. A. & M. Coll., Durham, N. H.

Instr. Greek and Latin, Atlanta Univ., Ga., 1903–5; instr. English, sci., home econ., high-schs., Mass., 1905–12; instr. home econ., Cornell Univ., 1912–6; present position, 1916—. Pres. N. H. State Home Econ. Assoc. *b.* Farmington, Me., Oct. 9, 1879; *d.* David Hunter and Clara Armine (Hinckley) K.; reared in small town. A.B., Mount Holyoke Coll., 1903.

Kolb, Roland A., co. agrl. agt., Medford, Wis.
b. Manitowoc, Wis., Oct. 12, 1884; *s.* Ernst and Emma (Steinhaus) K.; reared on farm; *m.* Elsa Clusen, June 4, 1912. B.S.A., Univ. Wis., 1909.

Kraus, Ezra Jacob, prof. research in hort., Ore. Agr. Coll. Exp. Sta., Corvallis, Ore.
Sci. asst., U. S. Dept. Agr., 1907–9; present position, 1909—. *b.* Ingham Co., Mich., Mar. 19, 1885; *s.* Christian and Katherine F. (Baumgras) K.; reared in city. B.S., Mich. Agr. Coll., 1907; Ph.D., Univ. Chicago, 1917. Sigma Xi; Phi Beta Kappa; Gamma Alpha; Phi Eta; Alpha Zeta.

Krause, Edwin Henry, asst. dairy manufacturing specialist, Univ. Neb. Lincoln, Neb.
Farm manag., 1916–8. *b.* Valley City, O., Mar. 4, 1891; *s.* Carl and Minnie (Baker) K.; reared on farm. B.Sc., Ohio State Univ., 1916.

Kraybill, Henry Reist, asst. physiologist, Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.
Asst. in expl. agrl. chem., Penn. State Coll., 1913–5; instr. agrl. chem., 1915–7; present position, 1917—. *b.* Mt. Joy, Pa., May 1, 1891; *s.* Samuel Snyder and Mary (Reist) K.; reared on farm; *m.* Ruth Grove, 1916; *c.* Henry Lawrence. B.S., Penn. State Coll., 1913; M.S., Univ. Chicago, 1915; Ph.D., 1917. Sigma Xi; Phi Kappa Phi; Phi Eta; Alpha Zeta.

Krome, William J., constructing engin., Fla. East Coast Ry., Homestead, Fla.
Fruit-grower, Dade Co., Fla., 1902—. Mem. adv. com., Fla. State Plant Bd., 1915–6. Vice-pres. Fla. State Hort. Soc., 1915–8; pres. Dade Co. Growers' League, 1914–8; dir. Fla. State Growers' League, 1915–8. *b.* Edwardsville, Ill., Feb. 14, 1876; *s.* Wm. H. and Medora (Gillham) K.; reared in town; *m.* Isabelle G. Burns, Nov., 1910; *c.* Mary Elizabeth, Wm. H., Robt. G. Cornell Univ., 1899. Delta Kappa Epsilon.

Kumlien, Wendell F., co. agrl. agt., Spearfish, S. D.
Princ. Parker high-sch., Moradabad, India, 1911–5; princ. 4th distr. schs., Appleton, Wis., 1916–7; agrl. agt. Lawrence Co., S. D., 1917—. Traveled Europe. 1911; India, Malaysia, China, Japan, 1915. *b.* Sumner, Wis., May 1, 1888; *s.* T. V. and Alice (Langworthy) K.; reared on farm; *m.* Eva M. Theleen, Oct. 18, 1913; *c.* Mary Alice, Margaret Olive. B.A., Lawrence Coll., Appleton, Wis., 1911; studied Univ. Wis., 1915–6.

Kunze, Emil Leo, co. agrl. agt., Sault Ste. Marie, Mich.
Instr. agr., Dowagiac high-sch., Mich., 1914–5; Cass Co. Normal Sch., 1915–6; attendance officer, Bd. Educ., Detroit; instr. citizenship and English, Detroit Evening Schs., 1916–7; present position, 1917—. *b.* E. Tawas, Mich., Jan. 8, 1890; *s.* E. Ernest and Agusta (Wachholz) K.; reared on farm and in town; *m.* Gladys Hibbard. B.Sc., Mich. Agr. Coll., 1914.

Kyle, Edwin Jackson, dean Sch. Agr., Tex. A. & M. Coll., College Station, Tex.
Asst. prof. hort., Tex. A. & M. Coll., 1902–5; prof., 1905—; dean Sch. Agr., 1911—. Farmer, 1910—. *Auth.:* Fundamentals of Farming and Farm Life, 1912. *b.* Kyle, Tex., Jul 22, 1876; *s.* Ferg and Anna (Moore) K.; reared on farm; *m.* Alice Erwin Myers, Dec. 21, 1904; *c.* Lily Bess. B.S., Tex. A. & M. Coll., 1899; B.S.A., Cornell Univ., 1901; M.S.A., 1902. Alpha Zeta.

Kyzer, Willard Tindall, co. agrl. agt., Kinston, N. C.
Teach. agr. and sci., Forrest Co. Agrl. High-Sch., Brooklyn, Miss., 1913–4; teach. agr. and woodwork, Berry Sch., Rome, Ga., 1914–6; agrst. and ind. agt., Norfolk Southern R. R., Norfolk, Va., 1916–7; agt. Lenoir Co., N. C., 1917—. *b.* Lexington, S. C., May 9, 1891; *s.* J. E. R. and Anna M. (Meetze) K.; reared on farm. B.S.A., Clemson Agr. Coll., 1913.

L

Lackie, Harry M., ext. asst. prof. an. husb., Ia. State Coll., Ames, Ia.
Asst. prof. an. husb., Ia. State Coll., 1915–7; ext. asst. prof., 1917—. With Coast Artillery Corps, U. S. Army, 1918—. *b.* Bradford, Ill., Jan. 4, 1891; *s.* Richard Y. and Annie (Buswell) L.; reared on farm. B.S.A., Ia. State Coll., 1915. Phi Kappa Phi; Gamma Sigma Delta; Tau Kappa Epsilon.

Lacy, Frank Howard, co. agrl. agt., Poughkeepsie, N. Y.

Teach. agr., high-sch., Tully, N. Y., 1910–1; Millbrook, 1912–3; agt. Duchess Co., 1913—. *b.* Stanley, N. Y., Jan. 2, 1886; *s.* Ira E. and Rose S. (Witter) L.; reared on farm; *m.* Clara Mabel Ransom, Sept. 5, 1911; *c.* Mabel Elizabeth, Evelyn Rose, Theodora Esther. B.S.A., Cornell Univ., 1912.

Ladd, Carl Edwin, specialist in agrl. educ., N. Y. State Educ. Dept., Albany, N. Y.

Instr., Cornell Univ., 1912–5; dir. State Sch. Agr., Delhi, 1915–7; present position, 1917—. *b.* McLean, N. Y., Feb. 25, 1888; *s.* Arnold D. and Mary E. (Mineah) L.; reared on farm; *m.* Camilla M. Cox, Mar. 9, 1912; *c.* Elizabeth Marie. B.S.A., Cornell Univ., 1912; Ph.B., 1915.

Ladd, Edwin Freemont, pres. N. D. Agr. Coll., Agricultural College, N. D.

Chem., N. Y. Agr. Exp. Sta., 1884–90; prof. chem., N. D. Agr. Coll., 1890—; chem., Exp. Sta., 1890—; pres., 1916—. Federal food administrator, 1917—. Fellow A. A. A. S. Pres. Assoc. Official Agrl. Chems. *Auth.:* Manual of Analysis, 1898; Mixed Paints, 1908. *Ed.,* North Dakota Farmer. *b.* Starks, Me., Dec. 13, 1859; *s.* John and Rosilla (Locke) L.; reared on farm; *m.* Rizpah Sprogle, Aug. 16, 1893; *c.* Rizpah, Katherine, Rosilla, Culver, Vernon, Milton, Elizabeth, Virginia. B.S., Univ. Me., 1884; LL.D., 1915. Phi Gamma Delta.

Lake, Edward Ralph, pom., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Instr. bot., Mich. Agr. Coll., 1885–8; prof. bot. and hort., Ore. Agr. Coll., 1888–91; prof. bot. and hort., Wash. State Coll., 1891–4; prof. bot. and hort., Ore. Agr. Coll., 1898–1905; prof. bot. and for., 1905–10; present position, 1910—. Mem. Ore. House of Rep.; Ore. Conservation Comn.; regent Ore. Agr. Coll. Del. Nat. Republican Convention, 1896. Sec. Am. Pom. Soc., 1912—. Sent to Europe, 1900, as agt. Dept. Agr. to investigate prune industry. *b.* England, May 16, 1860 (naturalized 1906); *s.* Geo. and Elizabeth (Seaton) L.; reared in country; *m.* Lillian May Stryker, Sept. 19, 1888; *c.* Roscoe Verne. B.S., Mich. Agr. Coll., 1885; M.S., 1888. Phi Delta Theta.

Lambert, Daniel Joseph, ext. agt. in poultry husb., R. I. State Coll., Kingston, R. I.

Poultry farmer, 20 yrs. *b.* Cranston, R. I., Oct. 14, 1860; *s.* Daniel and Mary (Hulme) L.; reared on farm; *m.* Fannie Leigh, Dec. 8, 1886; *c.* Clara Alice, Leroy Leigh, Daniel J. Jr.

Lambert, Fonsa Allan, asst. prof. comp. anat., Ohio State Univ., Columbus, O.

Present position, 1910—. Sec. State Vet. Med. Assoc. of O., 1915–8. Farming, 1902–7. Lieut. Vet. Reserve Corp, Nat. Army, 1918—. *b.* Kenton, O., Dec. 4, 1886; *s.* Samuel E. and Maria (Wilson) L.; reared in town; *m.* Dorothy Irvine, Dec. 14, 1911; *c.* Samuel Ellsworth, Martha Jane. D.V.M., Ohio State Univ., 1910. Sigma Alpha Epsilon; Alpha Psi.

Lambert, J. Carlos, co. agrl. agt., Metropolis, Nev.

Dairyman, Utah Dairy and Food Comn., 1911–4; dry-farm expert, Nev. Agr. Bd., 1917–8. *b.* Kamas, Utah, Feb. 12, 1887; *s.* John C. and Leva (Anderson) L.; reared on farm; *m.* Laura Seymour, Sept. 23, 1908; *c.* Beth, Wendell, Darwin, Ruth. B.S., Utah Agr. Coll., 1911.

Lamson-Scribner, Frank, agrostologist, U. S. Dept. Agr., Washington, D. C.

Special agt. in chg. mycological sect. Bot. Div., U. S. Dept. Agr., 1886; chief sect. veg. path., 1887; prof. bot., Univ. Tenn., 1888–94; dir. Exp. Sta., 1890–4; chief div. agrostology, U. S. Dept. Agr., 1894–1901; chief Insular Bur. Agr., Philippine Isls., 1901–4. Fellow A. A. A. S.; Chevalier du Merite Agricole, France, 1889. Expert on exhibits, U. S. Dept. Agr., 1913—. Translator, The True Grass, 1880. *b.* Cambridgeport, Mass., Apr. 19, 1851; *s.* Joseph H. and Ellen E. (Winslow) L. (adopted by family named Scribner); *m.* Ella Augusta Newmarch, 1877 (d. 1908); 2d, Marjorie Flemming Anderson, 1913; *c.* Allen, Frank, Louise. B.S., Univ. Me., 1873.

Lancaster, Robert Roy, co. agrl. agt., Rupert, Ida.

Sergeant of cavalry and sergeant of field artillery, regular U. S. Army, 1905–11, 2 yrs. in Hawaiian Isls. Farmer, Kans., 6 yrs. *b.* Sheldon, Mo., Apr. 8, 1887; *s.* Robt. F. and Hattie G. (Stevenson) L.; reared on farm. B.S.A., Kans. State Agr. Coll., 1916. Sigma Nu.

Lane, Clarence Bronson, chg. sci. dept. and vice-pres. Supplee Wills Jones Milk Co., Philadelphia, Pa.

Asst. farm exps., Storrs Exp. Sta., 1890–5; asst. agr., 1895–6; dairy husb., N. J. Exp. Sta., 1896–1903; asst. chief Dairy Div., U. S. Dept. Agr., 1903–9. *Auth.:* The Business of Dairying, 1909. *b.* Killingworth, Conn., Jan. 6, 1870; *s.* J. Harvey and Angenette (Barnum) L.; reared on farm; *m.* Nellie L. Lefferts, Aug. 21, 1901; *c.* Lowell L., Clarence B. Jr. B.S., Mass. Agr. Coll. and Boston Univ., 1895. Phi Kappa Phi.

Langworthy, Charles Ford, chief Off. Home Econ., U. S Dept. Agr., Washington, D. C.

Asst. and instr. chem., Wesleyan Univ., Conn., 1893–5; assoc. ed. Experiment Station Record, 1895—; expert in nutr., later chief nutr. invest., U. S. Dept. Agr., 1895–1905; chief Off. Home Econ., 1905—. Fellow A. A. A. S.; mem. Société Scientifique d'Hygiène Alimentaire, Paris. *b.* Middlebury, Vt., Aug. 9, 1864; *s.* Chas. P. and Ann E. (Ford) L.; reared in small town. A.B., Middlebury Coll., 1887; A.M., 1890; Ph.D., Strassburg Univ., Germany, 1893; D.Sc., Middlebury Coll., 1912. Delta Kappa Epsilon.

Lanham, William Bradford, state leader of specialists, Tex. A. & M. Coll., College Station, Tex.

Hort., Sutherlin Land and Water Co., 1908–10; hort., Lewiston, Clarkston Improvement Co., Clarkston, Wis., 1910–2; supt. McIntosh Manor, LoLo, Mont., 1912–4; ext. hort., Texas A.&M. Coll., 1915–6; chief plant ind. div., 1916–8; present position, 1918—. Sec.-treas. Tex. State Hort. Soc. *b.* Boone Co., Mo., June 27, 1882; *s.* J. O. and Alice Elizabeth (Baldridge) L.; reared on farm; *m.* Clarice Maud Lyman, Nov. 25, 1910; *c.* Clarice Elizabeth, Wm. Bradford Jr. B.S.A., Univ. Mo., 1907; A.M., 1917.

Lapham, Macy Harvey, insp. soil survey, Western Div., U. S. Bur. Soils, Federal Bldg., Berkeley, Calif.

b. Okemas, Mich., Apr. 10, 1874; *s.* Harvey and Maria (Morrison) L.; reared on farm; *m.* Beulah Pearl Haskins, Apr. 8, 1903; *c.* Mary Kathleen. B.S., Mich. Agr. Coll., 1899.

Lapp, William Henry, ext. prof. poultry husb., Ia. State Coll., Ames, Ia.

b. Cleveland, O., Aug. 29, 1893; *s.* Chas. W. and Minnie (Binger) L.; reared on farm and in city. B.S.A., Ohio State Univ., 1916; M.S., 1917. Alpha Zeta.

Larmon, Charles W., dir. Bur. Statistics, Dept. Farms and Markets, Albany, N. Y.

Mem. N. Y. Assembly, 1889–90; with State Dept. Agr., 1905—. Mem. N. Y. State Immigration Comm., 1907–8. Farmer, 1902—. Vice-pres. and manag., Denver Reservoir Irrig. Co., Colo. *b.* Eagle Bridge, N. Y., Aug. 5, 1857; *s.* John and Laura Francis (King) L.; reared on farm; *m.* Susie M. Culver, Oct. 24, 1884; *c.* Frances M.

Larsen, Christian, dir. agrl. ext., S. D. State Coll., Brookings, S. D.

Teach. country schs.; teach. Mass. Agr. Coll., winter, 1901–2; instr. and assoc. prof. dairy husb., Ia. State Coll., 1902–6; prof., Utah Agr. Coll., 1906–7; prof. dairy husb., S. D. State Coll., 1907–18; present position, 1918—. Supt. dem. trains in S. D. Studied agrl. and dairy conditions in Europe, 1899–1900. *Auth.:* Principles and Practice of Buttermaking, 1908; Dairy Technology, 1910; Exercises in Farm Dairying, 1914. *Ed.,* dairy dept. in The Dakota Farmer; former ed., Ia. dept., Dairy Record; creamery dept., Creamery Journal. *b.* Odense, Denmark, Aug. 4, 1874 (naturalized 1897); *s.* Hans and Marie (Frydendahl) L.; reared on farm; *m.* Elsie M. Finch, Aug. 4, 1903; *c.* Thorwald H., Harold C., Alice M., Lillian. B.S.A., Ia. State Coll. 1902; M.S.A., 1904.

Larsen, Harvey Earl, chg. local market reporting serv., U. S. Bur. Markets, 139 N. Clark St., Chicago, Ill.

Asst. princ. high-sch., Shawano, Wis., 1911–2. *b.* Clintonville, Wis., Oct. 8, 1888; *s.* Jacob C. and Marie (Peterson) L.; reared on farm; *m.* Mary Agnes Schneider, May 17, 1917. A.B., Ripon Coll., Wis., 1911; M.S., Univ. Wis., 1915.

Larson, Carl William, asst. prof. agr. and agrl. econ., Columbia Univ., New York City.

Instr. dairying, Penn. State Coll., 1907–9; asst. prof., 1909–13; prof. in chg. dept. dairy husb., 1913–6; present

position, 1916—; asst. chief, Dairy Div., Bur. An. Ind., U. S. Dept. Agr., 1917— (on leave). Sec. Official Dairy Instrs. Assoc.; sec. Pa. Dairy Union. Del. to Dairy Congress, Stockholm, 1911. Studied dairy conditions in Europe, 1911. *Auth.*: (with Putney) Dairy Cattle Feeding and Management, 1917; Milk Production Cost Accounts, Principles and Methods. *b.* St. Ansgar, Ia., May 29, 1881; *s.* Henry and Minnie (Hansen) L.; reared on farm; *m.* Nellie C. Wallace, Sept. 7, 1911; *c.* Eileen. B.S.A., Ia. State Coll., 1906; M.S., Penn. State Coll., 1913; Ph.D., Columbia Univ., 1916. Sigma Xi; Alpha Zeta.

Larson, John Elmer, head serv. dept., Portland Seed Co., Portland, Ore.

Assoc. ed., Northwest Farmstead, Minneapolis, 1912–3; agrl. agt., Spink Co., S. D., 1913–5; ext. assoc. prof. agron., Ore. Agr. Coll., 1914–8; present position, 1918—. *b.* Lockbridge, Ia., Jul. 6, 1883; *s.* John and Barbara (Graber) L.; reared on farm; *m.* Mary Anna Wilkins, June 5, 1912; *c.* Richard John, Marceline Anne. B.S., S. D. State Coll., 1912.

Lassetter, William Casper, dir. ext., Univ. Ark., Fayetteville, Ark.

Asst. agron., Ohio State Univ., 1909–10; instr. agron., Univ. Ark., 1910–2; asst. prof., 1912–4; prof., 1914–5; asst. dir. ext., 1915–7; dir., 1917—. *b.* Villa Rica, Ga., Aug. 31, 1887; *s.* J. G. W. and Mary (Barnett) L.; reared on farm; *m.* Irma Lee Hamby, Dec. 16, 1916. B.S.A., Univ. Wis., 1909. Alpha Zeta; Phi Lambda Upsilon.

Lathrop, Frank Waldo, instr. agron. and farm manag., State Sch. Agr., Cobleskill, N. Y.

Instr. agr., Canandaigua Acad., N. Y., 1914–6; present position, 1916—. *b.* Manchester, Conn., Dec. 5, 1888; *s.* Wm. Waldo and Harriett (West) L.; reared in town; *m.* Lucy B. Avery, Dec. 31, 1914; *c.* Mary Avery. B.A., Yale Univ., 1911; M.S.A., Cornell Univ., 1914. Zeta Psi.

Latta, William Carroll, farmers' inst. specialist, Purdue Univ., LaFayette, Ind.

Instr. agr. and supt. farm, Purdue Univ., 1882–3; prof., 1883–1911; present position, 1911—. *b.* Union Mills, Ind., Mar. 9, 1850; *s.* Robt. S. and Mary (Tumbleson) L.; reared on farm; *m.* Alta E. Wood, Jul. 10, 1879; *c.* Bertha, Robt., Pauline, Mary. B.S., Mich. Agr. Coll., 1877; M.S., 1882.

Lauman, George Nieman, prof. rural econ., Cornell Univ., Ithaca, N. Y.

Instr. rural econ., Cornell Univ., 1903–5; asst. prof., 1905–9; prof., 1909—. Fellow A. A. A. S. Mem. Am. comn. to study rural credits in Europe, 1913. *b.* Pittsburgh, Pa., Feb. 15, 1874; *s.* A. H. and A. M. L. (Havekotte) L.; reared in city; *m.* Frances Addison Wheeler, June 1912; *c.* Frances W., Geo. W., Mary W., Henry W. B.S.A., Cornell Univ., 1897.

Law, James, veterinarian, Ithaca, N. Y.

Prof. anat. and materia medica, Edinburgh New Vet. Coll., 1860–5; prof. anat., Albert Vet. Coll., London, 1865–7; prof. vet. sci., Cornell Univ., 1868–96; dir. and dean N. Y. State Vet. Coll., 1896–1908; emeritus, 1908—. Consulting vet., N. Y. State Agrl. Soc., 1868–96; chm. U. S. Treasury cattle comn., 1882–3; field chief, Bur. An. Ind., for extinction cattle lung plague in Ill. and N. Y., 1887–8. Pres. Am. Vet. Med. Assoc., 1906–7. *Auth.*: General and Descriptive Anatomy of Domestic Animals, 2 vols.; Farmers' Veterinary Adviser; Text Book of Veterinary Medicine, 5 vols. *b.* Edinburgh, Scotland, Feb. 13, 1838; *s.* John and Grace (Turner) L.; *m.* Elizabeth Crichton, May 4, 1863; *c.* Celia A., Grace, Julia. Educ. Edinburgh Vet. Coll., Univ. and Coll. of Surgeons., l'Ecole Veterinaire, Alfort, Paris, l'Ecole Veterinaire, Lyons, France; V.S., Highland and Agrl. Soc. Vet. Bd., 1857; M.R.C.V.S., Royal Coll. of Vet. Surgeons, 1863; F.R.C.V.S., 1870.

Lawrence, Jay Washington, farmer, and breeder Shorthorn cattle, Coshocton, O.

Lect. at farmers' insts. and farm dem. *b.* Coshocton Co., O., Mar. 28, 1895; *s.* D. C. and Lulu (Karr) L.; reared in country.

Lawrence, William Hereford, prof. hort., Univ. Mo., Columbia, Mo.

From asst. to asst. prof. and plant path. Exp. Sta., Wash. State Coll., 1900–11; plant path. and hort., Hood River Apple Growers, and Ore. Agr. Coll., 1911–3; prof. hort. and hort. Exp. Sta., Univ. Ariz., 1913–5; present position, 1915—. *Auth.*: Apple Growing, 1912.

b. Lake City, Ia., Feb. 3, 1877; *s.* Geo. W. and Vesta (Easton) L.; reared on farm; *m.* Edith Florence McDermott, June 8, 1908; *c.* Robt. Hereford. B.S., S. D. State Coll., 1899; A.B., Wash. State Coll., 1902; M.S., 1902. Sigma Xi.

Lawton, Jay Waldemar, co. agrl. agt., Wabasha, Minn.

Originator of the Lawton seed-corn tester, given to the public without patent rights. *Auth.:* The Awakening, 1914. *b.* Viola, Wis., Mar. 7, 1891; *s.* J. W. and Sarah (Saubert) L.; reared on dairy farm; *m.* Mollie Thoreson, Jul. 29, 1916; *c.* Beatrice June. B.S.A., Univ. Wis., 1914.

Laythe, Leo L., co. agrl. agt., Tucson, Ariz.

Agt. Park Co., Wyo., 1917–8; agt. Pima and Pinal Cos., Ariz., 1918—. *b.* Kinbrae, Minn., Mar. 26, 1892; *s.* S. and Ella (Swarthout) L.; reared on farm; *m.* Lillian Gertrude Dearmin, Mar. 10, 1917. B.S., Ore. Agr. Coll., 1916. Gamma Sigma Delta.

Leaming, Stewart, co. agrl. agt., Rensselaer, Ind.

Agrl. dir., high-sch., St. Peter, Minn., 1912–5; agrl. agt., Nicollet Co., Minn., 1915–7; agt. Jasper Co., Ind., 1917—. *b.* Romney, Ind., Aug. 5, 1889; *s.* G. C. and Alice (Stewart) L.; reared on farm; *m.* Florence Johnson, June 12, 1916; *c.* Mary Alice. B.S.A., Purdue Univ., 1912. Alpha Zeta.

Leathers, Chauncey E., co. agrl. agt., Cambridge, Md.

Teach. public schs., O., 1910–2; asst. sci., Ohio Northern Univ., 1914–5; teach. high-sch., Clear Spring, Md., 1915–7; asst. bot., Md. Exp. Sta., 1917–8; co. agt., 1918—. *b.* Van Wert, O., Aug. 13, 1890; *s.* W. C. and Jennie A. (Leslie) L.; reared on farm; *m.* Edna R. Ringwald, Aug. 22, 1917. B.S., Ohio Northern Univ., 1917. M.S., Md. Agr. Coll., 1918.

Lechner, Herwegh Joseph, co. agrl. agt., Astoria, Ore.

Special instr. agr., high-sch., Pullman, Wash., 1909–10; princ. rural consolidated sch., Moxee, Wash., 1910–1; instr. agr., high-sch., Tracy, Minn., 1911–3; instr. farm crops, Ia. State Coll., 1913–5; teach. dept. rural schs., State Normal Sch., Ellensburg, Wash., 1915–8; agt. Clatsop Co., Ore., 1918—. *b.* Washougal, Wash., Feb. 13, 1885; *s.* Jos. and Margaret M. (Heilmann) L.; reared on farm; *m.* Anna B. Badger, Jul. 3, 1913; *c.* Burdette Emerson, Eleanor Jane. B.S., A.B., Wash. State Coll., 1910; M.S., Ia. State Coll., 1915.

Le Clerc, Joseph Arthur, in chg. lab. plant chem., Bur. Chem., U. S. Dept. Agr., Washington, D. C.

Asst. chem., N. Y. Agr. Exp. Sta., Geneva, 1895–1901; present position, 1903—. Sec. Am. Soc. Milling and Baking Tech.; pres. Washington sect., Am. Chem. Soc., 1912. Del. Inter. Congress of Agr., Paris, 1900; mem. jury awards, Paris Expos.; chm. jury awards on cereal products, St. Louis and San Francisco Expos. Awarded Chevalier du Mérite Agricole by French govt. Leader agrl. tour to Europe, 1911; visited Santo Domingo. *b.* Ware, Mass., May 10, 1873; *s.* J. B. and Lucie (Chicoine) L.; reared in town; *m.* Emma V. Hall, 1895. B.Sc., Worcester Poly. Inst., 1895; Ph.D., Univ. Halle, 1903. Sigma Xi.

Lee, Alfred R., an. husb. in poultry invests., U. S. Dept. Agr., Washington, D. C.

b. Wakefield, Mass., Jul. 6, 1887; *s.* Edward E. and Annie (Wheelock) L.; reared in town and on farm; *m.* Esther G. Cristy, June 18, 1913; *c.* Barbara Martha, Richard Everett. B.S., R. I. State Coll., 1909.

Lee, Carl Emil, asst. dairy and food comnr. and dairy specialist, Dept. Agr., Madison, Wis.

Asst. prof. dairy manufacture, Univ. Ill., 1903–9; asst. prof. dairy husb., Univ. Wis., 1909–15; present position, 1915—. *b.* Edgerton, Wis., June 23, 1875; *s.* T. J. and Matilda (Hansen) L.; reared on farm; *m.* Gertrude Lang, Sept. 1, 1903; *c.* Howard James, Dorothy Mary, Herbert Carl. B.S., N.D. Agr. Coll., 1897; M.S., Univ. Wis., 1909. Sigma Xi.

Lee, Jordan Gray, supt. grounds, La. State Univ., Baton Rouge, La.

Asst. dir. N. La. Exp. Sta., 1888–96; comnr. agr. and immigration, La., 1896–1906; asst. dir. N. La. Exp. Sta., 1906–8; prof. for. and hort., La. State Univ., 1910–8; present position, 1918—. Farmer,

Calhoun, La. Trustee Southwest La. Ind. Inst., 1899–1904. State comnr. in chg. state exhibits, Buffalo and West India Expos., 1901; mem. and sec. Bd. Comnrs., St. Louis Expos., 1902–4. Vice-pres. La. For. Assoc. and mem. La. For. Adv. Bd., 1916. *b.* Farmersville, La., Dec. 17, 1863; *s.* John Martin and Mary Jane (Taylor) L.; *m.* Addie E. McGrath, Oct. 9, 1889; 2d, Sallie Lane, Oct. 19,, 1898. B.S., La. State Univ., 1888. Kappa Alpha.

Lee, Leon Frank, teach. agr., Brushton, N. Y.
b. Berkshire, N. Y., Aug. 30, 1891; *s.* Frank LaFayette and Bertha J. (Walter) L.; reared on farm; *m.* Myrtle Clement, June 14, 1917. B.S.A., Syracuse Univ., 1916.

Lee, Mary Estella, writer and dealer in seeds, plants, coal and feeds, Westerville, O.
Legislative agt., O. Sch. Improvement Fed. and Blendon Grange, 10 yrs. Sec. O. Republican Land Owner's League. Formerly Grange ed., Farm and Fireside. *b.* Amesville, O., Jan. 29, 1869; *d.* Eli and Annie Leah (Dean) Brown; reared on farm; *m.* Vernon W. Lee, Oct. 17, 1894. M.A., Ohio State Univ., 1905.

Legg, Andrew Jackson, farmer, Albion, W. Va.
b. Nicholas Co., W. Va., Mar. 29, 1861; *s.* Chas. Henderson and Harriet Jane (Grose) L.; reared on farm; *m.* Elizabeth Belle Burdette, Apr. 26, 1899; *c.* Carl B., Ethel J., Bernice, Wm. Cecil, Audra F., Bonny Lee, Edyth, Mabel.

Lehenbauer, Philip Augustus, assoc. in plant physiology, Univ. Ill., Urbana, Ill.
Instr. biol., Millikin Univ., Decatur, Ill., 1908–9; asst. bot., Univ. Ill., 1909–11; instr. bot., Ill. Biol. Sta., summer, 1910; asst. prof. bot. and hort., Univ. Nev., 1914–7; present position, 1917—. *b.* Hannibal, Mo., Nov. 1, 1881; *s.* Frederick A. and Mary Elizabeth (Koehler) L.; reared on farm. A.B., Westminster Coll., Fulton, Mo., 1907; A.M., Millikin Univ., 1909; Ph.D., Univ. Ill., 1914. Sigma Xi; Gamma Alpha.

Lehman, H. Ashford, co. agrl. agt., Canfield, O.
b. Prairie City, Ia., Dec. 5, 1883; *s.* D. K. and Algie (Haines) L.; reared on farm. M.S.A., Ohio State Univ., 1916.

Lehman, Simon Sweigert, co. agrl. agt., Erie, Pa.
b. W. Willow, Pa., Dec. 21, 1886; *s.* Adam and Mary (Rineer) L.; reared on farm. A.B., Franklin & Marshall Coll., 1913; B.S., Penn. State Coll., 1915.

Lehmann, Adolf Ludwig Ferdinand, prof. chem. and soils, Univ. Alberta, Edmonton, Alta.
Farmer, 1884–7; asst. chem., Ont. Agr. Coll., 1890; asst. chem., Central Exp. Farm, Ottawa, 1890–3; chem., Sugar Exp. Sta., New Orleans, 1893–4; lect. chem., Queen's Univ., Kingston, Ont., 1897–8; agrl. chem., Mysore, India, 1898–1908; research chem., Ohio Exp. Sta., 1908–9; prof. chem., Univ. Alta., 1909—; prof. soils, 1916—. Fellow A. A. A. S.; Am. Chem. Soc.; Chem. Soc., London. Mem. deputation to state of Coorg, India, 1907, Ceylon, 1908. Mem. Assembly, Mysore, India, 1899–1908; Bd. Agr., India, 1905–8. *Assoc. ed.*, Farmers' Advocate, 1888. *b.* Sparron Lake, Ont., Dec. 22, 1863; *s.* Adelbert L. and Kathinka (Bruch) L.; reared on farm; *m.* Georgina Lovick, Dec. 10, 1898 (d. 1908); 2d, Carry M. Lovick, Jul. 19, 1911; *c.* Ferdinand, Jack, Karl, Mary. B.S.A., Ont., Agr. Coll. and Toronto Univ., 1889; Ph.D., Univ. Leipzig, 1897.

Lehmann, Emil Wilhelm, assoc. prof. agrl. engin. and chm. dept., Univ. Mo., Columbia, Mo.
Instr. physics, Tex. A. & M. Coll., 1910–3; instr. agrl. engin., Ia. State Coll., 1914–5; asst. prof., 1915–6; present position, 1916—. *b.* Oldenburg, Miss., Apr. 19, 1887; *s.* Carl A. and Arminia (Vaulkenhausen) L.; reared on farm; *m.* Stella Spence, Aug. 5, 1915; *c.* Margaret Louise, Mary Bain. B.S. in E.E., Miss. A.&M. Coll., 1910; E.E., Tex. A. & M. Coll., 1913; B.S. in A.E., Ia. State Coll., 1914. Alpha Zeta; Phi Kappa Phi.

Lehnert, Eugene Hugo, prof. vet. sci. and bact. and vet Exp. Sta., Univ. Wyo., Laramie, Wyo.
Prof. vet sci., Conn. Agr. Coll., 7 yrs.; vice-dir. Smith's Agr. Sch., Northampton, Mass., 7 yrs.; supply prof. vet sci., Mass. Agr. Coll., 1 yr. *b.* E. Jaffrey,

N. H., Aug. 13, 1867; *s.* Carl W. and Ella R. (Burpee) L.; reared on farm and in small town; *m.* Eva M. Akin, Aug. 27, 1901; *c.* Carl, Lloyd, Clyde. B.Sc., Mass. Agr. Coll., 1893; D.V.S., McGill Univ., 1895. Kappa Sigma; Phi Kappa Phi.

Leighty, Clyde Evert, agron. in chg. eastern wheat invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Grain standardization, Bur. Plant Ind., 1906–9; cereal invests., 1912—; agron. dept., Ill. Exp. Sta., 1905. Visited European corn-receiving ports, 1906. *b.* Billett, Ill., May 7, 1882; *s.* Geo. H. and Lucretia (Vandermark) L.; reared on farm; *m.* Ollie Edna Harris, Oct. 13, 1908; *c.* Florence Lucretia, Dorothy Lee, Raymond Vandermark. B.A., Ill. Wesleyan Univ., 1904; Ph.D., Cornell Univ., 1912. Sigma Xi; Tau Kappa Epsilon.

Leith, B. D., asst. prof. agron. and supt. farms, Univ. Wis., Madison, Wis.

b. Eldorado, Wis., Sept. 2, 1875; *s.* Wm. and Margaret (Leith) L.; reared on farm; *m.* Edna Elkneton, 1908; *c.* Donald. B.S., Univ. Wis., 1911.

Leonard, William Ezickel, prof. econ., Whitman Coll., Walla Walla, Wash.

Prof. social sci., Bellevue Coll., Omaha, Neb., 1902–11; teaching fellow, Univ. Wis., 1911–2; instr. econ., Univ. Tex., 1912–6; present position, 1916—. Special attention to rural problems. *b.* Ia., Aug. 12, 1865; *s.* Almon and Emma (Ward) L.; reared on the farm; *m.* Lillian L. Ramsdell, 1903; *c.* Wm. Ramsdell, Faith Eloise. Ph.B., Grinnell Coll., Ia., 1899; A.M., Univ. Wis., 1912. Phi Beta Kappa.

Leopold, Rev. Father, O. C R., prof. hort., Inst. Agricole d'Oka, La Trappe, Que.

Present position, 1910—. Dir. Que. Soc. of Protection of Plants, 1914—, vice-pres., 1917; dir. Que. Pom. Soc., 1913, and former pres. Del. to Pom. Soc. at Tours, France, 1911. Mem. French Pom. Soc. *Auth.:* La Culture Fruitière dans la Province de Québec, 1915. *b.* Nassau, Bahama Isls., Jan. 15, 1884; *s.* Enrique Ortiz y Pi and Ada (Black). Educ. Montreal Coll. and in France; ordained priest.

Lesseps, Hamilton, co. agrl. agt., Plaquemine, La.

Sugar planter and manufacturer, St. Landry Parish, La., 7 yrs. *b.* La., June 30, 1883; *s.* Auguste and Augusta (Story) L.; reared on sugar plantation; *m.* Mary Beaufort Williams, Sept. 9, 1914.

Létourneau, Firmin, prof. ent. and plant path., Inst. Agricole d'Oka, La Trappe, Que.

Dir. Soc. of Que. for Protection of Plants. *b.* Mont-Louis, Gaspé, Que., Sept. 25, 1891; *s.* Louis and Zõile (Lemieux) L.; reared on farm. Student Inst. Agricole d'Oka, Ont. Agr. Coll., Cornell Univ.

Levine, Max, asst. prof. bact. and bact. in the Exp. Sta., Ia. State Coll., Ames, Ia.

Research asst., Sewage Exp. Sta., Mass. Inst. of Tech., 1912–3; instr. bact., Ia. State Coll., 1913–4; bact. U. S. Public Health and Marine Hospital Serv., 1914–5; present position, 1915—. 1st Lieut. Sanitary Corps, Nat. Army, 1918—. *b.* Poland, Apr. 4, 1889 (immigrated 1892); *s.* Julius and Rebecca (Mogelson) L.; reared in city; *m.* Adele Dine, Nov. 30, 1911; *c.* Norman Dine, Boris Eugene, Saul Edgar, Melvin Lewis. S.B., Mass. Inst. Tech., 1912.

Lewelling, Walter Williams, co. agrl. agt., Kirksville, Mo.

Dairy farmer, Mo., 1899–1917. *b.* High Hill, Mo., Oct. 16, 1875; *s.* H. G. and Martha Keeler (Turner) L.; reared on farm; *m.* Mary Lee Woods, Sept. 25, 1901; *c.* Evelyn May. B.Agr., Univ. Mo., 1898.

Lewis, Claude Isaac, chief Div. Hort. and vice-dir. Exp. Sta., Ore. Agr. Coll., Corvallis, Ore.

Master sci., Rockland high-sch., Mass., 1903; prof. nat. sci. and agr., Alfred Univ., N. Y., 1904–5; present position, 1906—. *b.* Cardiff, Wales, Apr. 12, 1880 (naturalized 1901); *s.* Isaac and Helen (Hibbard) L.; reared on farm; *m.* Marie A. Berry, Mar. 31, 1905; *c.* Hubert DuBois, Claudia Louise, Romello Berry, Paul Arthur, Josephine Elizabeth. B.S.A., Mass. Agr. Coll., 1902; B.S., Boston Univ., 1902; M.S.A., Cornell Univ., 1906. Sigma Xi.

Lewis, Edward Morgan, dean and prof. language and literature, Mass. Agr. Coll., Amherst, Mass.

Instr. elocution, Columbia Univ., 1901–3; asst. prof. oratory, Williams Coll., 1903–11; instr. elocution, Yale Sch. Religion, 1904–16; asst. dean and prof. literature, Mass. Agr. Coll., 1911–3; dean, 1913—. Special attention to literature of country life. *b.* Machynlleth, Wales, Dec. 25, 1872; *s.* John C. and Jane (Davies) L.; reared in town; *m.* Margaret H. Williams, Jul. 1, 1896; *c.* Edward Williams, Gwendolen, John Bascom. B.A., Williams Coll., 1896; M.A., 1899. Phi Gamma Delta.

Lewis, Harry Reynolds, prof. poultry husb., Rutgers Coll., New Brunswick, N. J.

Prof. poultry husb., Baron de Hirsch Agr. Sch., Woodbine, N. J., 1907–9; prof. agr., 1909–10; instr. dairy and poultry husb., Rutgers Coll., 1911–4; assoc. prof. poultry husb., 1914–5; prof., 1915—; poultry husb., N. J. Exp. Sta., 1910—. Sec.-treas. Am. Assoc. Instrs. and Invests. in Poultry Husb.; sec. Nat. War Emergency Poultry Fed. *Auth.:* Poultry Laboratory Guide, 1910; Productive Poultry Husbandry, 1913; Poultry Keeping, 1915; Poultry Laboratory Manual, 1918. *b.* Providence, R. I., Oct. 14, 1885; *s.* Frank Levitt and Harriett Elizabeth (Reynolds) L.; reared on farm; *m.* Alice Bell Mattison, Dec. 25, 1907; *c.* Harry Reynolds Jr. B.S., R. I. State Coll., 1907; M.Agr., 1916. Phi Kappa Phi; Kappa Sigma.

Lewis, John B., co. agrl. agt., Lawrenceville, Va.

Farmer, Ky., Va., 1903—. *b.* LaSalle Co., Ill., Oct. 9, 1868; *s.* Isaac and Rebecca J. (Garretson) L.; reared on farm; *m.* Ida M. Van Fossen, Apr. 7, 1892; *c.* Merriam G., Leon E., Florence V., Charles D.

Lindley, Jesse Webb., co. agrl. agt., Bakersville, N. C.

b. Chatham Co., N. C., Mar. 9, 1889; *s.* Arlendo Sherman and Mary Ellen (Perry) L.; reared on farm. Grad. N. C. A.&M. Coll., 1915.

Linfeld, Frederick B., dean Mont. State Agr. Coll. and dir. Exp. Sta., Bozeman, Mont.

Asst. dairying, Ont. Agr. Coll., 1892–3; prof. an. husb. and dairying, Utah Agr. Coll., 1893–1902; prof. agr., Mont. State Coll., 1902—; dean Coll. Agr., 1913—; dir. Exp. Sta., 1903—. Sec. Mont. State Bd. Farmers' Inst. *b.* Twillingate, Newfoundland, Jul. 16, 1866 (naturalized 1908); *s.* Samuel and Rachel (Patten) L.; reared on farm; *m.* Mary A. Mahoney, Dec. 26, 1892; *c.* Bertil, R. Azalea, Leila M. B.S.A., Toronto Univ., 1891.

Lingle, Lester F., asst. prof. hort. products, Ore. Agr. Coll., Corvallis, Ore.

b. Paoli, Ind., Aug. 30, 1894; *s.* Samuel L. and E. Josephine (Fawcett) L.; reared in town. A.B., Ind. Univ., 1917. Alpha Chi Sigma.

Link, George Konrad Karl, path., cotton and truck disease invests., Bur. Plant. Ind., U. S. Dept. Agr., Washington, D. C.

Asst. bot., Kans. State Agr. Coll., 1910; adj. prof. agrl. bot., Univ. Neb., 1911–3; asst. prof., 1913–4; assoc. prof., 1914–7; prof. plant physiology, 1917–8; preseut position, 1918—. Fellow A. A. A. S. *b.* Mt. Clemens, Mich., Mar. 14, 1888; *s.* Geo. and Frederica (Mohr) L.; reared in town. S.B., Univ. Chicago, 1910; A.M., Univ. Neb., 1912; Ph.D., Univ. Chicago, 1916.

Lipman, Charles Bernard, prof. soil chem. and bact., Univ. Calif., Berkeley, Calif.

Instr. soil bact., Univ. Calif., 1909–10; asst. prof. soils, 1910–2; assoc. prof. soils, 1912–3; prof. soil chem. and bact., 1913—. Fellow A. A. A. S. Chm. ed. com., Univ. Calif. and Exp. Sta. Adv. ed., Journal of Bacteriology and Soil Science. *b.* Russia, Aug. 17, 1883 (naturalized 1892); *s.* Michael and Ida (Birkhahn) L.; reared on farm. B.Sc., Rutgers Coll., 1904; M.Sc., 1909; M.S., Univ. Wis., 1909; Ph.D., Univ. Calif., 1910.

Lipman, Jacob Goodale, dean agr. and dir. N. J. Exp. Sta., Rutgers Coll., New Brunswick, N. J.

Asst. chem., N. J. Exp. Sta., 1898–9; soil chem. and bact., 1901—; instr. agrl. chem., Rutgers Coll., 1902–6; asst. prof., 1906; assoc., 1906–7; prof. soil chem. and bact., 1907–13; prof. agr., 1913—; dean of agr., 1915—; dir. N. J. Exp. Sta., 1911—. Lect. farmers' insts., 1902—. Farmer, N. J., 1891–4; dir. coll. farm, 1911—. Fellow A. A. A. S. *Auth.:* Bacteria in Relation to Country Life,

1908; (with P. E. Brown) Laboratory Guide on Soil Bacteriology, 1912; chapters on soils, Marshall's Microbiology, 1912. *Ed.*-in-chief, Soil Science; asst. ed., Journal American Society of Agronomy. *b.* Friedrichstadt, Russia, Nov. 18, 1874 (immigrated 1888); *s.* Michael and Ida (Birkhahn) L.; *m.* Cecelia Rosenthal, 1902; *c.* Leonard Herzl, Edward Voorhees, Daniel Hilgard. B.Sc., Rutgers Coll., 1898; A.M., Cornell Univ., 1900; Ph.D., 1903. Sigma Xi; Phi Beta Kappa.

Lippincott, Harvey Sharpless, co. agrl. agt., Morristown, N. J.

Teach. field sports and nat. hist., Moorestown Acad., 2 yrs.; agrst., Penn. R. R., 9 yrs.; co. agt., 1917—. *b.* Moorestown, N. J., 1880; *s.* Samuel H. and Elizabeth (Ballinger) L.; reared on farm; *m.* Ethel A. Haines, 1915; *c.* Horace H. B.S., Cornell Univ., 1904.

Lippincott, William Adams, prof. poultry husb., Kans. State Agr. Coll., Manhattan, Kans.

Asst. prof. an. husb. in chg. poultry, Ia. State Coll., 1911–2; present position, 1912—. *Auth.:* Poultry Production, 1914. *b.* Jacksonville, Ill., Jul. 3, 1882; *s.* Julian P. and Clara (Adams) L.; reared in town; *m.* Florence Humphreys, Aug. 25, 1908; *c.* Dorothy Adams, Wm. Julian. A.B., Ill. Coll., 1903; B.S., Ia. State Coll., 1911; M.S., Univ. Wis., 1917. Sigma Xi; Phi Kappa Phi; Sigma Nu; Alpha Zeta; Gamma Sigma Delta.

Lively, Daniel O'Connell, farmer and stock-raiser, 215 Hobert Bldg., San Francisco, Calif.

Cotton farmer, Tex., 1880–4; cowboy, 1884–6; farmer, Tex., 1887; founder Live-Stock Show, Ft. Worth, 1896; dir. Inter. Live-Stock Expos., Chicago, 1900; Union Stock Yards and farm manag., Ore., 1909–12; farmer and breeder, Calif., 1916—. Asst. sec. Farmers' Nat. Congress, 1905–10; general manag. Pacific Inter. Live-Stock Expos.; chief dept. live-stock, Panama-Pacific Expos., 1912–5 and U. S. comnr. to S. America. *Auth.:* Swine Raising in the Pacific Northwest, 1910. *Ed.*, Tex. Stock and Farm Journal, 1894; Ft. Worth Live-Stock Reporter, 1895–6; founder Portland Live-Stock Reporter, 1910. *b.* Galveston, Tex., Sept. 14, 1868; *s.* Dominic and Cecelia (Edwards) L.; reared on farm; *m.* Edna Springer, 1909.

Livermore, Kenneth C., prof. farm manag., Cornell Univ., Ithaca, N. Y.

Instr. farm crops and farm manag., Cornell Univ., 1909–12; asst. prof. farm manag., 1912–3; prof., 1913—. Farmer, 1914–7. *Auth.:* (with Warren) Laboratory Exercises in Farm Management. *b.* Watertown, Mass., Jan. 3, 1886; *s.* Chas. E. and Caroline B. (Russell) L.; reared in town; *m.* Madeleine S. Avery, June 18, 1914; *c.* Ray Carter. B.S.A., Cornell Univ., 1909. Sigma Xi; Alpha Zeta.

Livingston, George, specialist in grain marketing, U. S. Dept. Agr., Washi ngton, D. C.

Asst. farm crops, Ia. State Coll., 1910; asst. agron., Ohio State Univ., 1910–1; asst. prof., 1911–5; asst. in grain marketing, Bur. Markets, 1915–6; specialist, 1916—. Traveled in Germany, Denmark, 1914. *Auth.:* Field Crop Production, 1914. *b.* Union City, O., Sept. 14, 1886; *s.* Adam and Mary Jane (Thomas) L.; reared on farm; *m.* Inez Van Sickle, June 7, 1911; *c.* Mary Jane, Robt. J. B.S.A., Ohio State Univ., 1909; grad. student, Cornell Univ., 1913; Halle, 1914. Alpha Zeta.

Lloyd, Edward Read, dir. Miss. Exp. Sta. and ext., Miss. A.&M. Coll., Agricultural College, Miss.

Agrst., Miss. Exp. Sta., 1888–90; vice-dir. and agrst., 1890–1900; prof. agr., Miss. A.&M. Coll., 1900–5; dir. farmers' insts., 1905–10; dir. ext. and Exp. Sta., 1910—. *b.* Auburn, Ala., Mar. 10, 1867; *s.* W. E. and Susan T. (Read) L.; reared on farm; *m.* Fannie A. Bell, Dec. 18, 1890; *c.* Edward R. Jr., Loui. B.S., Ala. Poly. Inst., 1886; M.S., 1888. Alpha Tau Omega.

Lloyd, John William, prof. olericulture and chief in olericulture, Univ. Ill., Urbana, Ill.

Instr. hort., Univ. Ill., 1899–1902; instr. olericulture, 1902–3; asst. prof., 1903–9; assoc. prof., 1909–11; prof. and chief, 1911—. *Auth.:* Productive Vegetable Growing, 1914. *b.* St. Charles, Ill., Feb. 19, 1876; *s.* Wm. B. and Alice (Taylor) L.; reared on farm; *m.* Margaret Widdis, June 30, 1909. B.S., Wheaton Coll., Ill., 1897; B.S.A., Cornell Univ., 1899; M.S.A., 1903; Ph.D., Univ. Calif., 1917. Sigma Xi.

Lloyd, Lester William, co. agrl. agt., Newport, R. I.

Teach. Bristol Co. Agrl. Sch., 1916–7; co. agt., 1917—. Traveled in Europe, 1914. *b.* Blandford, Mass., Sept. 4, 1890; *s.* Virgil Lester and Isabell I. (Heady) L.; reared on farm; *m.* Grace Lillian Rieckel, Mar. 3, 1918. B.S., R. I. State Coll., 1916. Theta Chi.

Lloyd, Orson Gunnell, assoc. prof. farm manag., Ia. State Coll., Ames, Ia.

Agt., U. S. Dept. Agr., 1912–3; asst. chief farm manag., Ia. State Coll., 1913–7; assoc. prof., 1917—. *b.* Wellsville, Utah, Jan. 8, 1884; *s.* Joseph Benj. and Martha Ann (Gunnell) L.; reared on farm. B.S., Utah Agr. Coll., 1910; M.S.A., Univ. Wis., 1912. Gamma Sigma Delta.

Lloyd, William Allison, agrst. in chg. co. agt. work, States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Ed. Victoria Advocate, Victoria, Tex., 1895–6; lawyer, Georgetown, Tex., 1896–1901; farmer and stockman, O., 1901–9; exp., Ohio Exp. Sta., 1909–13; present position, 1913—. *b.* Sparta, O., Sept. 9, 1870; *s.* James J. and Maria (Ulery) L.; reared on farm; *m.* Minnie Rutherford; *c.* Leonila Marie. B.S., Nat. Normal Univ., Lebanon, O., 1890; student law, Univ. Tex., 1893–4.

Lloyd-Jones, Orren, assoc. prof. an. husb., Ia. State Coll., Ames, Ia.

Asst. prof. an. husb., Ia. State Coll., 1913–4; assoc. prof. in chg. invests. in an. breeding and genetics, 1914—. *b.* Hillside, Wis., Sept. 16, 1885; *s.* Enos and Eleanor (Lloyd-Jones); reared on farm; *m.* Lucinda Langworthy Carr, 1913. B.S., Univ. Wis., 1908; M.S., 1911; Ph.D., 1913. Sigma Xi; Alpha Zeta; Gamma Alpha; Kappa Phi Gamma.

Lockwood, William Penn Bignell, prof. dairying, Mass. Agr. Coll., Amherst, Mass.

In commercial dairy work, market milk and condensed milk, 1899–1908; asst. prof. dairying, Mass. Agr. Coll., 1908–10; assoc. prof., 1910–3; prof., 1913—; head dept., 1912—. Sec. Mass. Dairymen's Assoc.; sec. Mass. Creamery Assoc. *Assoc. ed.*, Dairy Science Journal, 1917. *b.* Millvillage, Pa., Dec. 2, 1875; *s.* Amos M. and Accty C. (Gregory) L.; reared in town; *m.* Mabel Duyckinck, Sept. 5, 1906; *c.* Emily Correll, Jean Horton, Aaron L. D. B.Sc., Penn. State Coll., 1899; M.Sc., 1909. Alpha Zeta; Kappa Sigma.

Loew, Fred Aaron, co. agrl. agt., Huntington, Ind.

Prof. sci., Huntington Coll., 12 yrs. *b.* Allegan Co., Mich., Mar. 8, 1874; *s.* Frederick and Gertrude (Fouble) L.; reared on farm; *m.* Cora Sebright, Aug. 3, 1898; *c.* Elizabeth Gertrude. B.S., Huntington Coll., 1902; B.S., Mich. Agr. Coll., 1904; M.A., Univ. Mich., 1912.

Logan, Kate R., nat. sec. town and country work, Y. W. C. A., 600 Lexington Ave., New York City.

Teach. and princ. ward sch., Cherokee, Ia., 10 yrs.; co. supt. schs., Cherokee Co., 6 yrs.; asst. state leader boys' and girls' club work, Ia. State Coll., 4 yrs. *b.* Scotland; reared on farm and in town. Educ. Ia. State Teach. Coll.

Long, Conner Melbourne, co. agrl. agt., Sedalia, Mo.

Princ. Sch. Agr. and Dom. Sci., Okla. A.&M. Coll., 1906–8; dairy farmer and lect. for Mo. State Bd. Agr., 1908–13; farm adv., Johnson Co., 1913–5; agrl. agt., Pettis Co., 1915—. *b.* Hallsville, Mo., Mar. 21, 1880; *s.* David Washington and Laura (Conner) L.; reared on farm; *m.* Carrie Etta Bramblett, June 28, 1904; *c.* Howard, Vivian, Marion. B.S.A., A.B., Univ. Mo., 1905; M.S.A., 1906.

Long, David Daniel, soil expert, Univ. Ga., Athens, Ga.

Soil sci., Bur. Soils, U. S. Dept. Agr., 1909–12; present position, 1912—; in chg. soil survey, Ga. State Coll. Agr., Univ. Ga., 1912—. *b.* Pa., Dec. 6, 1887; *s.* J. A. and Mary (Bucher) L.; reared in town and country; *m.* Catharine Loucks, Dec. 30, 1913; *c.* David Daniel Jr. B.S., Penn. State Coll., 1909. Phi Kappa Phi.

Long, Dwight Clark, co. agrl. agt., Crystal Falls, Mich.

Head sci. dept., high-sch., Crystal Falls, 1917–8. *b.* Otsego, Mich., Apr. 18, 1894; *s.* Luther K. and Minnie S. (Clark) L.; reared in town; *m.* Marjorie Isabelle Grant, June 2, 1917. A.B., Olivet Coll., 1916; B.S., Mich. Agr. Coll., 1917.

[**Long, J. W.,** p. 312.

Longley, Willard Victor, co. agrl. agt., Hallock, Minn.

Instr. agr., Shakopee schs., Minn., 1911–4; Hallock schs., Minn., 1914–7; agt. Kittson Co., 1917—. *b.* Paradise, N. S., Oct. 4, 1887 (naturalized 1916); *s.* J. S. and Ella (Shaffner) L.; reared on farm; *m.* Clio T. Smith, Jul. 10, 1916. B.S.A., Ont. Agr. Coll., 1911.

Longyear, Burton O., assoc. prof. for., Colo. Agr. Coll., Fort Collins, Colo.

Instr. bot., Mich. Agr. Coll., 1893–1904; bot., Mich. Exp. Sta., 1903–4; instr. bot., Colo. Agr. Coll., 1904–7; assoc. prof., 1907–10; prof. bot. and for., 1910–4; assoc. prof. for., 1914—. Ex-officio state for., 1911–5. *Auth.:* Rocky Mountain Wild Flower Studies, 1909. *b.* Onondago, Mich., Jul. 16, 1868; *s.* W. D. and Ann E. (Barlow) L.; reared on farm; *m.* Jessie L. Bond, Dec. 29, 1897; *c.* Lawrence B., Florence L. B.S., Mich. Agr. Coll., 1903.

Lookabaugh, Harry Clive, farmer, Watonga, Okla.

Dir. Am. Shorthorn Breeders' Assoc.; dir. Okla. Shorthorn Breeders' Assoc.; vice-pres. Southern Cattlemen's Assoc. *b.* Atchinson Co., Kans., Sept. 13, 1875; *s.* Elijah Elmer and Emily (Killard) L.; reared on farm; *m.* Ida E. Sims; *c.* Lyda, Clarence, Edwin.

Loomis, Alice Marie, prof. home econ., Univ. Neb., Lincoln, Neb.

Instr. home econ., Peru Normal Sch., Neb., 1906–8; acting adj. prof., R. I. State Coll., 1909; instr., Univ. Wis., 1909–12; prof., Univ. Neb., 1912—. Agt. home econ. educ., Fed. Bd. Voc. Educ., 1917–8; pres. Home Econ. Sect., Neb. State Teach. Assoc.; Neb. home econ. dir. *b.* Berks, Neb., 1880; *d.* Theron and Julia (Anderson) L.; reared on farm. B.S., Kans. State Agr. Coll., 1904; M.A., Univ. Wis., 1910; studied at Univ. Chicago, Harvard Med. Sch. and scholarship at Columbia Univ. Omicron Nu (pres.).

Lorentz, Daniel E., co. sec. Y. M. C. A., Keene, N. H.

b. Newport O. June 16 1884; *s.* Michael and Barbara (Ruby) L.; reared on farm; *m.* Bessie Mae Talmage Jan. 1, 1913; *c.* Gerald Talmage. B.A. Marietta Coll., O., 1909; B.S., Drew Theol. Sem., 1912.

Lory, Charles Alfred, pres. Colo. State Agr. Coll., Fort Collins, Colo.

Asst. physics, Univ. Colo., 1899–1902; princ. Cripple Creek high-sch., 1902–4; acting prof. physics, Univ. Colo., 1904–5; prof. physics and electrical engin., 1907–9; present position, 1909—. Pres. Assoc. Western Agrl. Colls., 1915. Farmer, 1888–98; supt. for Hillsboro Irrig. Co., 1893, for Big Cut Lateral and Reservoir Co., 5 yrs. *b.* Sardis, O., Sept. 25, 1872; *s.* Chris and Ida (Stauffer) L.; *m.* Carrie Louise Richards, June 8, 1904. Ped.B., State Normal Sch., Greeley, Colo., 1898; B.S., Univ. Colo., 1901; M.S., 1902; LL.D., 1909; D.Sc., Univ. Denver, 1914. Phi Beta Kappa; Sigma Xi; Delta Tau Delta.

Love, Harry Houser, prof. plant-breeding invest., Cornell Univ., Ithaca, N. Y.

Asst. plant-breeding, Univ. Ill., 1904–7; asst. plant-breeding, Cornell Univ., 1908–9; asst. prof. plant-breeding invest., 1909–11; prof., 1912—. Traveled in Europe. *b.* Taylorsville, Ill., Mar. 19, 1880; *s.* Chas. Henry and Adaline (Evans) L.; reared on farm; *m.* Anna Barclay, Sept. 6, 1904; *c.* Harry Barclay, Robt. Emerson, Elizabeth Maurine. B.S., Ill. Wesleyan Univ., 1904; M.A., 1906; Ph.D., Cornell Univ., 1909. Sigma Xi; Tau Kappa Epsilon.

Lovejoy, Sarah C., dir. home econ. and dean of women, Penn. State Coll., State College, Pa.

Teach. home econ., Nat. Cathedral Sch., Washington; Miss Porter's School, Farmington, Conn.; Nat. Park Sem., Washington. Lect. farmers' insts. *b.* Haverhill, Mass.; *d.* Thomas H. and Abby (Junkins) L.; reared in small city. A.B., Mt. Holyoke Coll., 1898. Psi Omega; Phi Kappa Phi.

Loveland, Edward Hildreth, co. agrl. agt., Randolph, Vt.

Asst. dairy husb., Univ. Vt., 1913–4; agt. Orange Co., 1914—. *b.* Norwich, Vt., May 14, 1888; *s.* G Edward and Ida (Hildreth) L.; reared on farm; *m.* Gladys Kuhn, Sept. 1, 1915. B.S., Dartmouth Coll., 1910; M.A., Univ. Neb., 1913.

Loveland, George Andrew, section dir. U. S. Weather Bur. and prof. meteorology, Univ. Neb., Lincoln, Neb.

Mem. Com. Vital Resources, 4th Nat.

Conservation Congress, Indianapolis. *Auth.:* Climate of Nebraska, 1914. *Ed.*, Neb. Weather Monthly Summary. *b.* Norwich, Vt., Oct. 9, 1863; *s.* David A. and Clara A. (Olds) L.; reared on farm and in town; *m.* Lillian Steel, June 6, 1900; *c.* Grace L., David S. B.Sc., N. H. A.&M. Coll., 1882; LL.B., Univ. City of N. Y., 1886; M.A., Univ. Neb., 1907. Sigma Xi.

Lovett, Amos Edwin, state co. agt. leader, Colo. Agr. Coll., Fort Collins, Colo.

Asst. irrig., N. Mex. A.&M. Coll., 1904–5; U. S. Indian Serv., 1905–8; assoc. ed., Live-stock Inspector, Enid, Okla., 1908–9; farmer, Okla., 1909–10; co. agt., Okla., 1910–1; chg. farm, U. S. Public Health Serv., Fort Stanton, N. Mex., 1911–4; co. agt., Redmond, Ore., 1914–6; present position, 1916—. *b.* Neal, Kans., Feb. 21, 1883; *s.* Hiram W. and Narsa A. (Turney) L.; reared on farm; *m.* Effa Sloan, Jul. 23, 1907; *c.* Mildred Myra. B.S., Okla. A.&M. Coll, 1904.

Lowell, Sherman James, fruit-grower, Fredonia, N. Y.

Master N. Y. State Grange; manag. Pomfret Fruit-Growers' Assoc., 1900–10; mem. Governor's food invest. com., 1916; mem. Food Supply Comn., 1917. *b.* Lamberton, N. Y., May 28, 1858; *s.* James Willoughby and Jane (Selleck) L.; reared on farm; *m.* Martha Louisa Marsh, Nov. 27, 1889; *c.* Fred Albert, Clyde Marsh.

Lowry, Marion W., adj. prof. soil chem., Univ. Ga., Athens, Ga.

Instr. soil chem., Univ. Ga., 1913–5; adj. prof., 1916—. *b.* Ravanna, Mo., Sept. 18, 1888; *s.* Marion W. and Eunice (Creel) L.; reared on farm. B.S.A., Univ. Mo., 1912; M.A., 1913. Sigma Xi; Gamma Sigma Delta.

Lowther, Granville, hort. and writer, Yakima, Wash.

Acting pres. Southwest Kans. Coll., 1896–8; Methodist preacher, 1874–1902; hort., Wash., 1905—. Mem. Governor's Adv. Bd., Wash. *Ed.*, Encyclopedia of Horticulture, 1914; contributing ed., Northwest Farm Trio, Spokane. *b.* Doddridge Co., W. Va., Jan. 19, 1848; *s.* Jesse and Hannah (Leeson) L.; reared on farm; *m.* Elizabeth Ann Boyce; *c.* Ada M., John F., Chas. C., Lola E., Mabel E.

Loyd, Harry Strawn, an. husb., U. S. Exp. Sta., Kodiak, Alaska.

Herdsman, Ft. Hays Exp. Sta., Kans., 1916–7; present position, 1917—. In U. S. Army, 1918—. *b.* Garden Plain, Kans., Jul. 13, 1891; *s.* M. J. and Cora (Garrison) L.; reared in city. B.S., Kans. State Agr. Coll., 1915.

Luckett, James Douglass, sci. asst., States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Farmer, Fairfax Co., Va., 3 yrs. Field crops ed., Experiment Station Record. *b.* Washington, D. C., Dec. 5, 1891; *s.* Samuel Douglass and Belle (Sparr) L.; reared in city; *m.* Lenore Williams, Mar. 24, 1914. B.S.A., Purdue Univ, 1916. Sigma Xi; Alpha Tau Omega.

Lueder, Charles Augustus, prof. vet. sci., W. Va. Univ., Morgantown, W. Va.

Present position, 1908—. State consulting vet. of W. Va. *b.* Nanticoke, Pa., May 30, 1878; *s.* Augustus Byron and Lucy (Lazarus) L.; reared on farm; *m.* Julia A. Lull, Dec. 30, 1903; *c.* Lydia, Eloise, Rennold Augustus, Chas. Augustus Jr. D.V.M., N. Y. State Vet. Coll., Cornell Univ., 1902; post grad., 1903.

Luginbill, Philip, ent., U. S. Ent. Sta., 1420 Pendleton St., Columbia, S. C.

Teacher public schs., O., 1904–6. Fellow A. A. A. S. *b.* Columbus Grove, O., Oct. 16, 1884; *s.* John and Anna (Zincc) L.; reared on farm; *m.* Alma K. Dean, Nov. 5, 1909; *c.* Dean Osborn, Webster Francis, Georgia Annette, Philip Jr. B.S.A., Ohio State Univ., 1910; M.A., Univ. S. C., 1917.

Luithly, John Albert Jr., asst. prof. dairy husb., Univ. Neb., Lincoln, Neb.

Instr. dairy manufacturing, Ia. State Coll., 1914–6; present position, 1916—. *b.* Washington Co., Ia., Oct. 6, 1888; *s.* J. A. and Anna M. (Varain) L.; reared on farm. B.S., Ia. State Coll., 1914.

Lumbrick, Arthur, co. agrl. agt., Danville, Ill.

b. Charleston, Ill., Oct. 11, 1882; *s.* James S. and Clementine (Nicholson) L.; reared on farm; *m.* Myrtle Mae Huston,

Dec. 22, 1909; *c.* Margaret Mae, Mary Elizabeth, Ruth Catherine, Martha Louise, Ester Clementine. B.S., Univ. Ill., 1908. Alpha Zeta.

Lumley, Frederick E., prof. social sci., Coll. of Missions, Indianapolis, Ind.
Princ. Sinclair Coll., St. Thomas, Ont., 1906–8; asst. anthropology, Yale Univ., 1909–12; present position, 1912—. Mem. Com. on Social Serv. and Rural Church, Disciples of Christ. Chm. Com. on Development of Local Charities, Ind. State Bd. of Charities. *b.* Iona, Ont., June 7, 1880; *s.* Moses W. and Dana E. (Williams) L.; reared in village and on farm; *m.* Margaretta Saywell, Oct. 4, 1905; *c.* Hillis. B.A., Hiram Coll., O., 1905; M.A., McMaster Univ., Toronto, 1907; B.D., Yale Univ., 1909; Ph.D., 1912.

Lumsden, David, asst. prof. flor., Cornell Univ., Ithaca, N. Y.
Instr. hort., N. H. A.&M. Coll., 1908–14; present position, 1914—. Floral decorator to Duke of Westminster, 2½ yrs.; foreman, Nova Scotia Nursery Co., Halifax, 2½ yrs.; floral decorator and lands. gard., Thos. F. Galvin Co., Boston, 2 yrs.; manag., W. W. Edgar Co., Waverley, Mass., 4 yrs. Fellow Royal Hort. Soc. Vice-pres. for N. H., Veg. Growers' Assoc. of Am., 1912–3. *b.* England, June 21, 1871 (naturalized 1905); *s.* David and Mary (Allen) L.; reared in town; *m.* Sarah Jane Quincey, Jan. 31, 1893; *c.* Mary Florence, David Victor, Geo. Quincy, Wm. Edward.

Lund, Frants Peter, specialist canning and drying, States Relations Serv., U. S. Dept. Agr., Washington, D. C.
Teach. coll., Skanderborg, Denmark, 1889–90; teach. parochial sch., Clinton, Ia., 1890–2; public schs., Wharton Co., Tex., 1897–1905; princ. boy's high-sch., Christiansted, St. Croix, Virgin Isls., 1905–8; chg. expl. farm, Midfields, Tex., 1908–11; present position, 1916—. *b.* Honum, Denmark, June 29, 1866 (naturalized 1905); *s.* Johannes J. and Karen Marie (Nielsen) L.; reared in country; *m.* Ella Sarah Kramer, 1896; *c.* Harry V., Einar V. Student Univ. Copenhagen.

Lusk, William F., prof. rural educ., Cornell Univ., Ithaca, N. Y.
Princ. Polk Co., Wis., Teachers' Training Sch., 1905–7; teach. physics and agr., Stevens Point Normal, 1907–11; asst. prof. agrl. educ., Univ. Minn., 1914–7; present position, 1917—. *b.* River Falls, Wis., Aug. 1, 1874; *s.* David McKinley and Susan (Foster) L.; reared on farm; *m.* Lucy Kimberly Peckham, June, 1905. Ph.B., Univ. Wis., 1903; M.S., Univ. Minn., 1916. Gamma Sigma Delta.

Lute, Harry Detlef, farmer and stockman, Paxton, Neb.
Dir. State Bd. of Farmers' Educ. and Coop. Union; pres. farmers' insts. and lect. Neb. del. to Dry-Farming Congress, Lethbridge, Alta. *b.* Holstein, Germany, Jan. 8, 1870 (naturalized as minor); *s.* John and Anna (Wulf) L.; reared on farm; *m.* Lulu Woods, Sept. 20, 1904; *c.* Marjorie, Harriet. Grad. Sch. Agr., Univ. Neb., 1904.

Luther, Ernest Leonard, supt. farmers' insts. and state superv. co. agrl. agts., Univ. Wis., Madison, Wis.
Supt. schs., Kalkosha, Mich., 1895–1902; co. supt. schs., 1899–1901; supt. schs., Eston Rapids, 1902–4; Ripon, Wis., 1904–10. *b.* Hart, Mich., Sept. 25, 1868; *s.* M. A. and Ida I. (Corbin) L.; reared on farm; *m.* Lulu M. Eddy, June 26, 1896; *c.* Breta Marie, Melvin Eddy. A.B., Olivet Coll., 1895; B.S.A., Univ. Wis., 1912.

Lutman, Benjamin Franklin, plant path., Vt. Exp. Sta. and Univ. Vt., Burlington, Vt.
Present position, 1909—. *b.* Joplin, Mo., Sept. 26, 1879; *s.* David and Anna (Carson) L.; reared in town; *m.* Anna B. Shepard, Jan. 31, 1912; *c.* Frank, Grace. A.B., Univ. Mo., 1906; Ph.D., Univ. Wis., 1909; studied Poppelsdorf Agr. Acad. and Biol. Anstat, Berlin, Mar.–Nov. 1912. Sigma Xi; Alpha Zeta.

Lyman, Charles Adelbert, exec. sec. Nat. Bd. Farm Organizations, 615 Woodward Bldg., Washington, D. C.
Dairy farmer, Sun-Prairie, Wis., 1904–14; Rhinelander, 1914–8. General organizer, Nat. Agrl. Organization Soc. Studied agr. in British Isles, 1915. Superv. Census, 2d Wis. Distr., 1910. *b.* Steele City, Neb., Sept. 6, 1882; *s.* Chas. A. and Delia (Gilman) L.; reared on farm; *m.* Helen Miriam Sheldon, Sept. 7, 1904; *c.* John Sheldon, Sydney Louise, Phoebe. B.A., Univ. Wis., 1904. Psi Upsilon.

Lyman, George Richard, path. in chg. plant disease survey, Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Instr. bot., Dartmouth Coll., 1901–4; asst. prof., 1904–13; path. insp., Fed. Hort. Bd., 1913–7; present position, 1917—. Fellow Am. Acad. Arts and Sci. *b.* Lee Center, Ill., Dec. 1, 1871; *s.* Geo. A. and Mary E. (Jones) L.; reared on farm; *m.* Frances E. Badger, June 23, 1903; *c.* Mavis Katharine. A.B., Beloit Coll., 1894; A.M., Harvard Univ., 1899; Ph.D., 1906. Beta Theta Pi.

Lyman, John F., prof. agrl. chem., Ohio State Univ., Columbus, O.

Asst. agrl. chem., Ohio State Univ., 1905–6; student asst. biol., Yale Univ., 1907–9; present position, 1909—. *b.* Mesopotamia, O., Feb. 20, 1881; *s.* Carlos P. and Cerinthia A. (Bates) L.; reared in small village; *m.* Cornelia Bull, Dec. 29, 1909; *c.* Eloise Caldwell, Edith Fisk. M.Sc., Mass. Agr. Coll., 1905; Ph.D., Yale Univ., 1909. Sigma Xi; Kappa Sigma.

Lyman, Richard Pope, dean vet. div., Mich. Agr. Coll., E. Lansing, Mich.

Asst. prof. med., Kans. City Vet. Coll., 1908–9; prof. med. and obstetrics, 1909–10; prof. vet. sci., Mich. Agr. Coll., 1910—; dean vet. div., 1911—. Chm. Com. on Vet. Educ. appointed by James Wilson, 1908. Consulting vet. for State Cattle Comn., Conn. Vice-pres. Am. Vet. Assoc.; sec., 7 yrs. Chm. pub. com., Am. Vet. Med. Assoc., 6 yrs. *Ed.*, Journal Vet. Med.; collaborator Am. Vet. Review. *b.* Concord, Mass., Aug. 5, 1872; *s.* Chas. Parker and Lucy Ellery (Pope) L.; reared on farm and in city; *m.* Annie Downing Evans, Feb. 16, 1898; *c.* Bertha D., Richard P. Jr. B.S., Mass. Agr. Coll., 1892; M.D.V., Harvard Univ., 1894. Alpha Psi.

Lyness, Charles Enoch, co. agrl. agt., Waseca, Minn.

Instr. agr., high-sch., Annandale, Minn., 1912–4; New Richland, 1914–8. *b.* Walnut, Kans., Feb. 11, 1885; *s.* John J. and Alma (McDermond) L.; reared on farm; *m.* Mae Virgie Hildebrand, June 16, 1915. B.S., Kans. State Agr. Coll., 1912.

Lyon, Thomas Lyttleton, prof. soil tech., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Instr. chem., Univ. Neb., 1891–3; asst. chem., Neb. Exp. Sta., 1894–5; prof. agr., Univ. Neb., 1895–1906; present position, 1906—. Fellow A. A. A. S. *Auth.:* (with Montgomery) Examining and Grading Grains; (with Fippin) Principles of Soil Management, 1909; (with Fippin and Buckman) Soils, Their Properties and Management, 1915; Soils and Fertilizers, 1917. *b.* Alleghany Co., Pa., Feb. 17, 1869; *s.* James B. and Anna M. (Lyon) L.; reared in country; *m.* Bertha L. Clark, 1899; *c.* John Lyttleton, Geo. Clark. B.S.A., Cornell Univ., 1891; Ph.D., 1904; studied Univ. Goettingen, 1893–4. Sigma Xi; Phi Gamma Delta.

M

Macdonald, Angus Bernard, agrl. rep., Guysboro, N. S.

Lect. high-sch. hist. and math., St. Francis Xavier's Univ., 1914. *b.* Glassburn, N. S., Nov. 21, 1893; *s.* John B. and Florence (MacDonald) M.; reared on farm. B.A., St. Francis Xavier's Univ., Antigonish, N. S., 1915; B.S.A., Ont. Agr. Coll., 1918.

MacDonald, Gilmour Byers, prof. for., Ia. State Coll., Ames, Ia.

Asst. prof. for., Ia. State Coll., 1910–1; assoc. prof., 1911–4; prof., 1914—. *b.* Carleton, Neb., Mar. 9, 1883; *s.* J. M. and Janet (Piercy) M.; reared in country and city; *m.* Edith L. Craig, Feb. 1, 1910; *c.* Gilmour Craig, Donald Craig, Mary Janet. B.Sc. in For., Univ. Neb., 1907; M.F., 1914. Alpha Theta Chi; Phi Kappa Phi; Gamma Sigma Delta.

MacDougall, Allister Francis, co. agrl. agt., Northampton, Mass.

Ext. dept., Mass. Agr. Coll., 1913–5; agt. Hampshire Co., 1915—. Sec. Mass. Fed. Farm Burs. and Improvement Leagues. *b.* Westford, Mass., Jul. 18, 1891; *s.* Alexander and Hattie (Lee) M.; reared on farm; *m.* Edna C. Comins, Mar. 20, 1915; *c.* Henriette Louise. B.Sc., Mass. Agr. Coll., 1913. Phi Sigma Kappa.

Macfarland, Charles S., general sec. Federal Council of the Churches of Christ in Am., 105 E. 22d St., New York City.

Ordained Congregational minister, 1897;

asst. biblical literature, Yale Univ., 1899–1900; minister, Malden, Mass., 1900–6; pastor, S. Norwalk, Conn., 1906–11; lect., Yale Divinity Sch., 1909–12; social serv. sec., Fed. Council of Churches of Christ, 1911–2; general sec., 1912—. Mem. Nat. Bd. Censorship of Moving Pictures; Nat. Com. on Prison Labor; Nat. Civic Fed.; field scout comnr. of Boy Scouts of Am. Del. to World Alliance of Churches, Constance, Germany, 1914; Latin-American Conference, Panama, 1916; special comnr. to France 1918. Special attention to the country church. *Auth.:* The Spirit Christlike, 1903; Jesus and the Prophets, 1905; The Infinite Affection, 1906; Spiritual Culture and Social Service, 1912; Christian Unity at Work, 1913; Christian Service and the Modern World, 1915; The Progress of Church Federation, 1917. *Ed.*, The Christian Unity and the Social Order, 1910; The Churches of the Federal Council, 1916; The Churches of Christ in Council, 1917; The Churches of Christ in Time of War, 1917; Library of Christian Cooperation, 1917. *b.* Boston, Mass., Dec. 12, 1866; *s.* Daniel and Sarah A. (Crafts) M.; reared in city; *m.* Mary Perley Merrill, Mar. 9, 1904; *c.* Chas. S. Jr., Lucia Merrill, James Merrill. B.D., Yale Univ., 1897; Ph.D., 1899; D.D., Divinity Faculty of Paris, 1918.

MacGillivray, Alexander Dyer, prof. ent., Univ. Ill., Urbana, Ill.

Asst. ent., Cornell Univ., 1890–1900; instr., 1900–6; asst. prof., 1906–11; asst. prof. systematic ent., Univ. Ill., 1911–3; assoc. prof., 1913–7; prof. ent., 1917—; specialist, Me. Exp. Sta., summer, 1913. Fellow A. A. A. S.; fellow Ent. Soc. Am. and sec.-treas., 1911–5. *b.* Inverness, O., Jul. 15, 1868; *s.* John Hugh and Elizabeth (Adams) M.; reared in city and farm; *m.* Fannie Mary Edwards, Sept. 17, 1891; *c.* Malcolm Edwards, John Henry. Ph.B., Cornell Univ., 1900; Ph.D., 1904. Sigma Xi; Gamma Alpha.

Mac Intire, Walter Hoge, soil chem., Univ. Tenn. Exp. Sta., Knoxville, Tenn.

Chem., N. C. State Bd. Health, 1905–7; asst. an. nutr., Pa. Inst. An. Nutr., 1907–8; asst. agron., Penn. State Coll., 1908–10; assoc., 1910–2; present position, 1912—. Assoc. referee and referee, Assoc. Official Agrl. Chems., 1911–8. *b.* Wilmington, N. C., May 19, 1885; *s.* Robt. Mosier and Sarah Lavinia (McKay) M.; reared in city; *m.* Edna M. Meyer, Feb., 1911; *c.* Sarah Elizabeth, J. Robt. Wilson. B.S., N. C. A.&M. Coll., 1905; M.S., Penn. State Coll., 1909; Ph.D., Cornell Univ., 1916. Sigma Xi; Kappa Alpha.

MacKay, Kenneth George, prof. dairying, Univ. Sask., Saskatoon, Sask.

Asst. prof. dairying, Univ. Sask., 1914–7; prof., 1917—. Asst. dairy comnr., Sask., 1913–4. Sec. Sask. Dairymen's Assoc., 1915—. Traveled in India and Europe, 1906. *b.* Scotsburn, N. S., Jul. 30, 1882; *s.* Daniel G. and Catherine (MacDonald) M.; reared on farm; *m.* Anna M. Nairn, Mar. 24, 1909; *c.* James Kenneth, Catherine Elizabeth. B.S.A., Ont. Agr. Coll., 1906; M.S., Ia. State Coll., 1913.

MacKay, Norman Cairns, agrl. rep., Walkerton, Ont.

Instr. agr., Pearson Acad., Walla Walla, Wash., 1911–2; agrl. rep., 1912—. *b.* Scotsburn, N. S., Jan. 14, 1888; *s.* Daniel and Catherine (MacDonald) M.; reared on farm; *m.* Annie Maud O'Droskie, Dec. 9, 1914; *c.* Catherine Margaret, Donald Hobson. B.S.A., Ont. Agr. Coll. and Univ. Toronto, 1911.

MacKay, William Angus, provincial dairy supt., Truro, N. S.

b. Bruce Co., Ont., Mar. 31, 1879; *s.* Geo. S. and Ann (Fletcher) M.; reared on farm; *m.* Sadie Tennyson, Mar. 28, 1907; *c.* Jean E., Geo. S. Grad. O. A. C. Dairy Sch., 1899; Northern Business Coll., 1906.

Mackintosh, Roger Sherman, ext. specialist hort., Univ. Minn., University Farm, St. Paul, Minn.

Asst. hort., Minn. Exp. Sta., 1896–1903; prof. hort., Ala. Poly. Inst., 1903–9; state hort., Ala., 1903–9; asst. hort., Ia. State Coll., 1909–10; asst. hort., Penn. State Coll., 1910–1; instr. agr., high-sch., Caledonia, Minn., 1911–3; present position, 1913—. Fellow A. A. A. S. Sec. Ala. State Hort. Soc., 1903–9; pres. Minn. State Hort. Soc., 1918—. *b.* Lincoln, Mass., Feb. 18, 1872; *s.* Wm. and Eliza Jane (Tuttle) M.; reared on farm; *m.* Laura Belle Wright, Sept. 18, 1901; *c.* Orlesta May. B.Agr., Univ. Minn., 1902; M.S., Ia. State Coll., 1910.

Macoun, William Terrill, Dominion hort., Cent. Expl. Farm, Ottawa, Ont.

Asst. to dir. and foreman for., Cent. Expl. Farm, 1893–6; curator of arboretum and bot. gard., 1896–8; hort. and curator arboretum and bot. gard., 1898–1910; Dominion hort., 1910—. Vice-pres. Am. Pom. Soc.; vice-pres. Potato Soc. of Am.; vice-pres. Soc. for Hort. Sci. Del. to Royal Inter. Hort. Exhibition, London, 1912. *b.* Belleville, Ont., Jan. 27, 1869; *s.* John and Ellen (Terrill) M.; reared in city; *m.* Elizabeth Macoun, Oct. 3, 1895; *c.* John, Norah, Mary, Patricia. Grad. Ottawa Collegiate Inst.

MacVittie, Alexander, co. agrl. agt., Caro, Mich.

Teach. high-sch., St. Johns, Mich., 1911–3; Bay City, 1913–7; present position, 1917—. *b.* Forester, Mich., Jan. 2, 1883; *s.* Archibald and Maria (Lawton) M.; reared on farm; *m.* Lillian Kendall, Jul. 13, 1912. B.S., Mich. Agr. Coll., 1911.

Madden, Irwin Arthur, co. agrl. agt., 214½ S. 6th St., Springfield, Ill.

Prof. agr., Ill. State Normal Univ., 1911–8. *Auth.:* Rural Arithmetic, 1916. *b.* Freeport, Ill., Dec. 22, 1884; *s.* Wm. James and Elizabeth (Murdaugh) M.; reared on farm; *m.* Isabelle McIntyre, Jul. 24, 1912; *c.* Margaret Isabelle. B.S., Univ. Ill., 1911. Sigma Xi; Alpha Zeta; Delta Upsilon.

Maddux, Henry Towns, junior prof. journalism and agrl. ed., Univ. Ga., Athens, Ga.

b. Senoia, Ga., Jan. 23, 1893; *s.* John Henry and Lulu Belle (Towns) M.; reared on farm. A.B., B.S.A., Univ. Ga., 1914.

Madison, Clyde Chloe, co. agrl. agt., Aurora, Ind.

Teach. grades, 1909–12. Mem. Dearborn Co. Council of Defense. *b.* Boone Co., Ind., June 19, 1883; *s.* Wm. and Emma (Craig) M.; reared on farm. B.S., Marion Normal Coll., 1909; B.S.A., Purdue Univ., 1917.

Madson, Ben Adolph, asst. prof. agron., Univ. Calif., Davis, Calif.

b. Jewell Jct., Ia., Mar. 19, 1887; *s.* Nels and Johanna (Jepson) M.; reared on farm; *m.* Mary Ellen Quane, June 26, 1912. B.S.A., Ia. State Coll., 1907.

Mahan, Charles Alfred, distr. superv. of co. agrl. agt. work, Ohio State Univ., Columbus, O.

Field test asst., Ky. Exp. Sta., 1907; special agt., tobacco invests., U. S. Dept. Agr., 1908–9; teach. sci., Bur. Educ. and supt. Tobacco Exp. Sta., Philippine Isls., 1909–11; stock farmer, Ky., 1912; co. agrl. agt., Henderson, Ky., 1913, Winchester, Ind., 1914–6, Fremont, O., 1917. *b.* Ky., Jan. 29, 1888; *s.* W. M. and Louisa (Archer) M.; reared on farm; *m.* Mary Dent King, 1915. B.S.A., Univ. Ky., 1907; M.S., 1908.

Mairs, Thomas Isaiah, prof. agrl. educ., Penn. State Coll., State College, Pa.

Supt. field exps., Univ. Ill., 1896–7; asst. agr. and supt. farm, Univ. Mo., 1897–1901; asst. correspondence courses, Penn. State Coll., 1901–3; asst. prof. an. husb., 1903–7; assoc. prof., 1907–9; prof. agrl. educ., 1909—. Staff of Rural Educator. *b.* Browning, Mo., Apr. 16, 1871; *s.* Joseph W. and Mary (Curtis) M.; reared on farm; *m.* Charlotte M. Riley, Jul. 30, 1902; *c.* Thomas I. Jr., J. Curtis, Edward S. B.Agr., Univ. Mo., 1896; M.S., 1900. Alpha Zeta.

Major, Horace Fairchild, lands. arch., asst. prof. lands. gard., Univ. Mo., Columbia, Mo.

Instr. lands. gard., Univ. Ill., 1908–10; present position, 1910—. Traveled in Europe and England. *b.* Ithaca, N. Y., Oct. 25, 1884; *s.* Wm. F. and Estelle (Tripp) M.; reared in city. B.S.A., Cornell Univ., 1908. Theta Xi; Alpha Gamma Rho; Sigma Kappa Zeta.

Malcomson, Alden Washington, co. agrl. agt., Ivanhoe, Minn.

Instr., Univ. Minn., 1916–8. *b.* LeRoy, Minn., Mar. 8, 1889; *s.* Henry and Celia (Leslie) M.; reared on farm. B.S., Univ. Minn., 1916; M.S., 1918. Alpha Zeta.

Mally, Frederick William, farm dem. dir., U. S. Dept. Agr., and dir. farm and truck crop irrig. projects, Laredo, Tex.

Asst. state ent., Ill., 1890; asst. ent., U. S. Dept. Agr., 1890–2; general manag., Galveston Nursery & Orchard Co., Dickinson, Tex., 1893–8; proprietor, 1898—; proprietor Garrison Nursery Co.; Tex. state ent. and prof. ent., Tex. A. & M. Coll., 1899–1903; state

ent., Tex. Dept. Agr., 1909–10; dir. farms, gardens and orchards, Cross S. Farming Co., 1910–5; present position, 1915—. Pres. Tex. State Hort. Soc., 1900; pres. State Truck Growers' Assoc., 1901. *b.* Marquisville, Ia., Nov. 30, 1868; *s.* Frederick Henry and Anna Katherine (Stoetzel) M.; *m.* Mattie J. Tabor, Jul. 15, 1909. M.Sc., Ia. State Coll.

Malone, Robert Emmick, dir. agr., and princ. Orange Co. Training Sch., Chapel Hill, N. C.

Dir. orcharding, Tuskegee Inst., 1910–2; dir. agr., Western Univ., 1912–5; dir. agr., Topeka Inst., 1915–7; present position, 1917—. *b.* Louisville, Ky., Apr. 25, 1888; *s.* Edward C. and Cora Lee (Hansberry) M. (col.); reared in city; *m.* Mattie Frances Holmes, Sept 4, 1912; *c.* Cora May, Ethel. Grad. Hampton Inst., 1909.

Mandenburg, Edmund Carl, ext. specialist in for., Mich. Agr. Coll., E. Lansing, Mich.

Y. M. C. A. work, U. S. Army, 1918—. *b.* Chicago, Ill., Feb. 15, 1887; *s.* Carl and Fredericka (Rose) M.; reared in city. B.S, Mich. Agr. Coll., 1915. Xi Sigma Pi.

Maney, Thomas Joseph, chief pom. sect., Ia. Exp. Sta., Ames, Ia.

Asst. pom., Ia. Exp. Sta., 1912–5; asst. chief pom., 1915–7; chief, 1917—. *b.* Geneva, N. Y., Apr. 24, 1888; *s.* Thos. and Ellen (Desmond) M.; reared on farm. B.S., Ia. State Coll., 1912.

Mann, Albert Russell, dean N. Y. State Coll. Agr., dir. ext., and dir. Exp. Sta., Cornell Univ., Ithaca, N. Y.

Asst. supt. Thompson Isl. Sch., Boston, 1904–5; asst. ed., Bailey's Cyclopedia Am. Agr., 1905–8; asst. prof. dairy ind., Cornell Univ., 1908; sec. to dir. and ed., 1909–10; sec. and registrar, Coll. Agr., prof. agrl. editing, 1910–5; prof. rural social organization, 1915–6; acting dean Coll. Agr., 1916–7; dean, 1917—. *Auth.:* Beginnings in Agriculture, 1911. *b.* Hawkins, Pa., Dec. 26, 1880; *s.* Wm. I. and Sarah (Lansing) M.; reared in city; *m.* Mary Douglass Judd, Aug. 23, 1906; *c.* Marion Lansing, Jeanette Wilbur, Malcolm Judd. B.S.A., Cornell Univ., 1904; A.M., Univ. Chicago, 1916. Sigma Xi; Alpha Zeta; Kappa Delta Rho.

Mann, Charles William, pom., U. S. Dept. Agr., Washington, D. C.

Special attention to handling, transportation and storage invests. of fruits and vegetables. Conducted invest. on shipment and handling of fruits exported from Porto Rico, 1913. *b.* Pittsburgh, Pa., Jan. 4, 1879; *s.* Wm. I. and Sarah (Lansing) M.; reared in city and on farm; *m.* Caroline W. Judd, Jul. 24, 1912; *c.* Douglass Lansing, Wm. I. B.S.A., Cornell Univ., 1906. Alpha Zeta.

Manning, Albert, farmer, Otisville, N. Y.

Sec. Dairymen's League; overseer N. Y. State Grange. Mem. Bd. Supervs., Orange Co., N. Y. Princ. graded rural sch., 3 yrs. *b.* Otisville, N. Y., Feb. 2, 1864; *s.* Ephraim and Caroline A. (Rundle) M.; reared on farm; *m.* Harriet E. Green, Sept. 20, 1888; *c,* Frank Leroy.

Manns, Thomas Franklin, plant path. and soil bact., Del. Coll., Newark, Del.

Asst. bot., N. D. Agr. Coll., 1903–4; princ. high-schs., Philippine Isls., 1904–7; asst. bot., Ohio Exp. Sta., 1907–11; soil bact., 1911–2; present position, 1912—. Traveled through Orient and Europe. *b.* Logan, Ont., Nov. 7, 1876 (naturalized 1883); *s.* Henry and Fannie (Symmons) M.; reared on farm; *m.* Alys Ethel Reid, June 21, 1904; *c.* Marshall, Richard, Thos. Jr., Alson. B.S., N. D. Agr. Coll., 1901; M.S., 1903; Ph.D., Univ. Penn., 1913. Sigma Xi; Phi Kappa Phi.

Maris, Paul Vestal, state co. agt. leader, Ore. Agr. Coll., Corvallis, Ore.

Field agt., Live-Stock Journal, 1907–8; deputy Ore. dairy and food comnr., 1908–10; dairy ext. agt. for U. S. Dairy Div., in Colo., 1910; agt. Saline Co., Mo., 1914–6; present position, 1916—. *b.* Newberg, Ore., Sept. 5, 1886; *s.* N. C. and Lou Etta (Swaim) M.; reared on farm; *m.* Mary Elizabeth Davis, June 5, 1915; *c.* Lucile Elizabeth. B.S., Pacific Coll., Ore., 1907; B.S., Univ. Mo., 1914. Alpha Zeta.

Markham, Lucius Alonzo, co. agrl. agt., Janesville, Wis.

Special work among peasants of Russia along the Volga River, 1918—. *b.* Portis, Kans., Apr. 12, 1889; *s.* L. C. and Maggie B. (Colnan) M.; reared on farm; *m.* Ruth Davis, Sept. 18, 1917. B.A., Fairmount Coll., 1911.

Markham, Winfield Lyman, co. agrl. agt., Hamburg, N. Y.

Teach. public schs., 4 yrs.; instr. dairying, Cornell Univ. short-course, 1908. *b.* Ellington, N. Y., Apr. 3, 1880; *s.* Stephen A. and Alice R. (Pratt) M.; reared on farm; *m.* Lena Krum, Oct. 3, 1900; *c.* Glen, Jessie. Studied Cornell Univ.

Marlatt, Charles Lester, ent., chm. Fed. Hort. Bd. and asst. chief Bur. Ent., U. S. Dept. Agr., Washington, D. C.

Asst. prof., Kans. State Agr. Coll., 2 yrs.; asst. ent., Bur. Ent., 1889–94; 1st asst. and asst. chief, 1894—. Chm. Fed. Hort. Bd., 1912—. Sent by Dept. Agr. to Japan, China, Java on entomological trip. Fellow A. A. A. S. Pres. Ent. Soc. Washington, 1897–8; pres. Assoc. Econ. Ent., 1899. *b.* Atchison, Kans., Sept. 26, 1863; *s.* Washington and J. A. (Bailey) M.; reared on farm; *m.* Florence L. Brown, Dec. 1, 1896; 2d, Helen Stuart Mackay-Smith, Jul. 5, 1906; *c.* Florence, Virginia, Chas. L. Jr., Helen, Dorothy, Constance. B.S., Kans. State Agr. Coll., 1885; M.S., 1887.

Marquis, John Clyde, assoc. agrl. ed., Country Gentleman, Curtis Pub. Co., Philadelphia, Pa.

Special agt. in plant ind., U. S. Dept. Agr., June–Oct., 1904; assoc. ed., American Agriculturist, 1904–8; agrl. ed. and instr. agrl. journalism, Univ. Wis., 1908–11; ed. Country Gentleman, 1911–2; assoc. agrl. ed., 1912—. Mem. Am. Comn. on Rural Credits to Europe, 1913. *b.* Madison, Ind., Jul. 9, 1881; *s.* John Hillis and Mary Thomas (Voiles) M.; *m.* Mary Emma Copeland, June 15, 1904; *c.* John Firth, Roger Philip. B.S., Purdue Univ., 1904; M.S., 1909. Alpha Zeta.

Marshall, Frederick Rupert, in chg. sheep husb. invests. and ext., Bur. An. Ind., U. S. Dept. Agr., Washington, D. C.

Asst. an. husb., Ia. State Coll., 1901–3; assoc. prof., Tex. A.&M. Coll., 1903–7; prof., Ohio State Univ., 1907–12; prof., Univ. Calif., 1912–3; present position, 1913—. Sent by U. S. Dept. Agr. to New Zealand and Australia, 1914. *Auth.:* Breeding Farm Animals, 1911. *b.* Westbrook, Ont., June 26, 1877 (naturalized 1907); *s.* Francis and Charlotte (Day) M.; reared on farm; *m.* Jean Craig, Jan. 2, 1914. B.S.A., Ont. Agr. Coll., 1899; B.S.A., Ia. State Coll., 1900.

Marshall, George O., co. agrl. agt., Americus, Ga.

Princ. Craven Co. Farm Life Sch., 1913–5. Traveled in Europe. *b.* Acme, N. C.; *s.* Thos. W. and Hannah A. M.; reared on farm. B.A., Wake Forest Coll., 1908; law licence, N. C. Supreme Court, 1914.

Marshall, Roy Edgar, hort., ext. div., Va. Poly. Inst., Blacksburg, Va.

Instr. hort., Univ. Neb., Feb.–Aug. 1913; fellow pom., Ore. Agr. Coll., 1913–5; instr. pom., 1915–6; asst. hort., ext. div., Va. Poly. Inst., 1916–7; hort., 1917—. *b.* Arlington, Neb., Feb. 28, 1890; *s.* Robert Carson and Mollie (Sharp) M.; reared on farm; *m.* Irene Ursula Telford, June 15, 1917. B.Sc., Univ. Neb., 1913; M.S., Ore. Agr. Coll., 1915. Alpha Zeta.

Martin, Harley A., sec. Red Polled Cattle Club, Gotham, Wis.

Breeder live-stock and farmer, 1898—. *Ed.,* Red Polled Herd-Book, 1905—. *b.* Cottonwood Falls, Kans., Jan. 3, 1880; *s.* James W. and Dora (Ragan) M.; reared on farm; *m.* Georgia Stoddard, Oct. 9, 1903; *c.* Wayne, Eva, Dora, James, Freda. Student short-course, Univ. Wis.

Martin, John Holmes, supt. Harney Branch Exp. Sta., Burns, Ore.

Sci. asst., cereal invests., U. S. Dept. Agr., 1914–8. *b.* Petersburg, N. D., June 10, 1893; *s.* James Prater and Sarah Elizabeth (Wilson) M.; reared on farm and in town. B.S., Ore. Agr. Coll., 1914.

Martin, Joseph Gaillard, invest. in cotton marketing, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

b. Vicksburg, Miss., Mar. 24, 1880; *s.* Eugene and Anne F. C. (Blake) M.; reared in city and country; *m.* Helen Virginia Wallis, Aug. 11, 1917. Special student, Univ. Miss. Phi Delta Theta.

Martin, Oscar Baker, dir. club and home dem. work of South, U. S. Dept. Agr., Washington, D. C.

Princ. public graded sch., 1893–6; princ. high-sch., Greenville, S. C., 1896–1902; state supt. educ. of S. C., 1903–8;

present position, 1909—. *b.* Central, S. C., Nov. 8, 1870; *s.* Thos. C. and Hattie M. (Baker) M.; reared on farm; *m.* Dora Cook, Dec. 23, 1897. A.B., Furman Univ., 1892. Kappa Alpha.

Martin, William A., dairy farmer, Kenton, O.
Pres. O. Live-Stock Assoc., 1916–7. Contributing ed., Ohio Farmer. *b.* Kenton, O., Aug. 19, 1883; *s.* Newton S. and Anna (Reed) M.; reared on farm; *m.* Besse Belle Shilling, June 22, 1912; *c.* Allen Wm., Jane, Elizabeth, Donald Newton. B.S.A., Ohio State Univ., 1905. Alpha Gamma Rho.

Marvin, Charles Frederick, chief U. S. Weather Bur., Washington, D. C.
Appointed on civilian corps signal serv. as junior prof., 1884 and as prof. meteorology, U. S. Weather Bur., 1891; chief, 1913—. Inventor of instruments for measuring and recording rainfall, snowfall, sunshine, etc. *b.* Putnam, O., Oct. 7, 1858; *s.* Geo. F. and Sarah A. (Speck) M.; *m.* Nellie Limeburner, June 27, 1894; 2d, Mabel Bartholow, Nov. 8, 1911. Grad. Ohio State Univ., 1883.

Mask, Homer Hosea Ballou, co. agrl. agt., Newton, N. C.
b. Eclectic, Ala., Aug. 23, 1887; *s.* John Dudly and Martha L. (Mason) M.; reared on farm; *m.* Gillie L. Trimble, Aug. 1913; *c.* Francis Earl. B.S. in Agr., Ala. Poly. Inst., 1915. Phi Kappa Phi.

Mason, Albert Freeman, ext. hort., Penn. State Coll., State College, Pa.
b. Newark, O., Oct. 24, 1891; *s.* Morton F. and Mary (Wallace) M.; reared in town and on farm. B.S., Ore. Agr. Coll., 1914; M.S., Penn. State Coll., 1915. Sigma Alpha Epsilon; Gamma Sigma Delta.

Mason, Charles Wilkins, co. agrl. agt., Farmville, Va.
Teach. agr. and sci., high-sch., Hillsdale, Mich., 1909–10; asst. to ed. National Stockman and Farmer, Pittsburgh, 1910; agrl. agt., Land and Ind. Dept., Southern Ry., Asheville, N. C., 1911–2; sec. and manag., Haywood Fruit Exchange, Waynesville, N. C., 1912–3; farming, Prince Edward Co., 1914–6; teach. State Normal Sch., Farmville, Va., 1916–7; co. agt., 1917—. With Engineering Corps, Nat. Army, 1918—. *b.* Union City, Pa., June 23, 1888; *s.* L. Walter and Carrie (Wilkins) M.; reared on farm and in city; *m.* Irma Louise Windsor, Sept. 6, 1911; *c.* Evelyn Louise, Dorothy B., C. Windsor. B.S., Mich. Agr. Coll., 1909.

Mason, David Townsend, prof. for., Univ. Calif., Berkeley, Calif.
Lect. for., Univ. Mont., 3 mos., 1910–1; lect. for., Yale Univ., 2 mos., 1914; present position, 1915. For. superv., U. S. For. Serv., 1910–2; asst. distr. for., 1913–4. Mem. For. Com., Nat. Conservation Congress; mem. exec. com., Soc. Am. Fors. Sec. and dir. Strathmore Farm Co., Alta. 1909—. Capt., 10th Engineers, Nat. Army, 1917—. *Auth.:* Lodge-Pole Pine, 1912. *b.* Newark, N. J., Mar. 11, 1883; *s.* Wm. B. R. and Rachel Manning (Townsend) M.; reared in town; *m.* Evelyn Polleys, Oct. 4, 1911. B.S., Rutgers Coll., 1905; M.F., Yale Univ., 1907; M.S., Rutgers Coll., 1908. Phi Beta Kappa; Chi Psi.

Mason, Preston Walter, sci. asst., Bur. Ent., U. S. Dept. Agr., Washington, D. C.
Asst., Purdue Univ., 1912–3; instr., 1913–7; asst. prof., 1917–8; present position, 1918—. *Auth.:* (with W. A. Price) Laboratory Exercises in Introductory Entomology, 1915. *b.* Warren, Mich., Apr. 12, 1889; *s.* Jesse F. and Anna L. (Tharrett) M.; reared in village. B.S., Mich Agr. Coll., 1912; M.S., Purdue Univ., 1917.

Massey, Wilbur Fisk, agrl. journalist, Salisbury, Md.
Teach. bot. and biol., Miller Sch., Albermarle, Va., 1885–9; prof. hort. and bot., N. C. A.&M. Coll., 1889–1905. Served in Civil War. *Auth.:* Crop Growing and Crop Feeding, 1904; Practical Farming, 1906; Garden Book for Southern States, 1918. *Ed.,* Practical Farmer, Philadelphia, 1903–6; assoc. ed. Progressive Farmer, Raleigh, N. C., 1906—; Southern Planter, Richmond, Va., 1906—; Market Growers' Journal, Louisville, Ky., 1907–8. *b.* Onancock, Va., Sept. 30, 1839; *s.* James A. and Ann (Parker) M.; *m.* Sarah Phoebus, May 4, 1861; 2d, Aurilia Phoebus, Apr. 4, 1876; *c.* James B., Chas., Albert, Arthur B., Fanny, Nelly, Mabel, Elizabeth, Winifred. Grad. Dickinson Coll., 1859; D.Sc., N. C. A.&M. Coll., 1917.

Massie, David Meade, farmer, Chillicothe, O.

Mem. O. State Legislature, 1888–1901. Trustee Ohio State Univ., 1888–1907. Comnr. in Cuba under Spanish Treaty Claims Comn., 1902–9. Mem. Agrl. Adv. Com., 1918. *b.* Chillicothe, O., Feb. 26, 1859; *s.* Henry and Susan B. (Thompson) M.; reared on farm; *m.* Juliet Matthews, Nov. 6, 1883. A.B., Princeton Univ., 1880; LL.B., Cincinnati Law Sch., 1882; A.M., Princeton Univ., 1883.

Mathers, James Renwick, co. agrl. agt., Bloomsburg, Pa.

Princ. high-sch., Pa., 2 yrs. *b.* Wawa, Pa., Feb. 29, 1888; *s.* James and Annie (Dinsmore) M.; reared on farm; *m.* Katharine Susan Rahn, June 24, 1916; *c.* James Dinsmore. B.S., Penn. State Coll., 1915. Alpha Zeta.

Matheson, Robert, asst. prof. ent. and asst. ent. Exp. Sta., Cornell Univ., Ithaca, N. Y.

State ent., S. D., 1907–9; asst. ent., Cornell Univ., 1909–11; instr., 1911–2; prof. zool. and ent., N. S. Agr. Coll., Truro, 1912–3; present position, 1914—. Fellow A. A. A. S. *b.* Nova Scotia, Dec. 20, 1881; *s.* Walter A. and Mary (Anderson) M ; reared on farm; *m.* Margaret K. Macpherson, 1911. B.S.A., Cornell Univ., 1906; M.S.A., 1907; Ph.D., 1911. Sigma Xi; Gamma Alpha.

Mathews, Clarence W., prof. hort., Univ. Ky., Lexington, Ky.

Prof. bot. and hort., Univ. Ky., 1892–1910; prof. hort., 1910—. *b.* Lawrence, Mass., Feb. 10, 1861; *s.* Ezekiel W. and Eunice C. (Small) M.; reared in city and on farm; *m.* Henrietta Safford, Dec. 29, 1891; *c.* Ruth Elizabeth, Geo. F., Paul W. B.S.A., Cornell Univ., 1891.

Mathews, Irvin James, co. agrl. agt., Winamac, Ind.

Head dept. agr., high-sch., Rockford, Ill., 1915–7; agt. Pulaski Co., Ind., 1917—. Sec. Winnebago Co, Holstein-Friesian Breeders' Assoc., 1916–7. *Ed.*, farm manag. dept., Farm Life, Spencer, Ind. *b.* Canby, Mich., Feb. 11, 1891; *s.* John Chas. and Eleanor (Pike) M.; reared on farm; *m.* Gladys Soule, Aug. 31, 1912; *c.* Lawrence James. B.S., Mich. Agr. Coll., 1915.

Matthew, Ernest Bertram, prof. agrl. educ., Univ. Ark., Fayetteville, Ark.

Teach. math., Ft. Hays State Normal Sch., Kans., 1903–10; state high-sch. visitor for normal schs. of Kans., 1911–2; prof. math., 1913–5; prof. agrl. educ., 1916–8; present position, 1918—. *b.* Virginia, Ill., Mar. 13, 1875; *s.* Chas. C. and Harriet L. (Ivey) M.; reared on farm; *m.* Alice Isabel Compton, 1904; *c.* Harriet Elizabeth. A.B., Emporia State Teach. Coll., 1913; M.S., Univ. Wis., 1916.

Matthews, Mary Lockwood, prof. and chief div. home econ., Purdue Univ., LaFayette, Ind.

Instr. home econ., Univ. Minn., 1908–9; lect. farmers' insts., Purdue Univ., 1909–11; present position, 1911—. Dir. home econ. for Ind. Food Administration. Pres. Ind. Home Econ. Assoc.; chm. home econ. dept., Ind. State Federation of Clubs; mem. Council, Am. Home Econ. Assoc.; chm. home econ. com., State Council of Defense. *b.* Oct. 13, 1882; *d.* John E. and Harriet (Beach) M.; reared on farm. B.S. in H.E., Univ. Minn., 1904. Omicron Nu.

Mattill, Henry A., asst. prof. nutr., Univ. Calif., Berkeley, Calif.

Asst. chem., Univ. Ill., 1906–8; fellow physiological chem., 1908–10; prof. physiology and physiological chem., Univ. Utah, 1910–5; present position, 1915—. Capt. Food Div., Sanitary Corps, U. S. A. Fellow A. A. A. S. *b.* Glasgow, Mo., Nov. 28, 1883; *s.* Henry and Emma (Freyhofer) M.; reared in city; *m.* Helen Isham, Dec. 31, 1912. A.B., Western Reserve Univ., 1906; A.M., 1907; Ph.D., Univ. Ill., 1910. Phi Beta Kappa; Sigma Xi; Phi Lambda Upsilon; Gamma Alpha.

Maughan, Merrill Owen, co. agrl. agt., Afton, Wyo.

Teach. agr., high-sch., Price, Utah, 1911–5; instr. dairy production, Wash. State Coll., 1917–8; agt. Lincoln Co., Wyo., 1918—. *Ed.*, Lincoln Co. Farmers Bulletin; contributing ed., Northwest Dairyman. *b.* Wellsville, Utah, Oct. 4, 1890; *s.* John H. and Sarah (Owen) M.; reared on farm; *m.* Edith Homer, Aug. 28, 1913; *c.* Ruth Homer. B.S., Utah Agr. Coll., 1911; M.A., Univ. Mo., 1917.

May, David William, chg. Porto Rico Exp. Sta., Mayaguez, Porto Rico.

Asst. agrst. chg. field expts., Mo. Exp. Sta., 1896–9; asst. agr., U. S. Dept. Agr., 1899; an. husb., Ky. Exp. Sta., 1901–4; present position, 1904—. *b.* Platte Co., Mo., Apr. 22, 1868; *s.* Benjamin L. and Mary (Nicol) M.; *m.* Lena Harrison, Dec. 24, 1896. B.Agr., Univ. Mo., 1894; M.Agr., 1896.

May, Earl Tuttle, co. sec. Y. M. C. A., 721 Emily St., Saginaw, Mich.

Teach. rural schs., 3 yrs.; village schs., 2 yrs. Traveled Egypt and Turkey, 1903–4. *b.* Hancock Co., O., Jan. 17, 1880; *s.* Lewis B. and Emma L. (Tuttle) M.; reared in town and country; *m.* Matie M. Boughton, Nov. 21, 1905; *c.* Ruth, Rollo, Donald, Dorothy, Yona. Student Valparaiso Univ. and Ohio Northern Univ.

Maydole, Hugh Darwin, co. sec. Y. M. C. A., Somerville, N. J.

b. Russia, N. Y., Feb. 16, 1877; *s.* John W. and Lydia Ann (Jones) M.; reared on farm; *m.* Laura May Guest, Oct. 17, 1906. Student Wesleyan Univ., Middletown, Conn. Psi Upsilon.

Mayes, Jewell, sec. Mo. State Bd. of Agr., Jefferson City, Mo.

Dir. farmers' insts. of Mo.; mem. State Poultry Bd. Publisher Richmond Missourian; pres. Am. Assoc. Farmers' Inst. Workers, 1918. *b.* near Knoxville, Mo., Feb. 15, 1873; *s.* Wiley and Sina (Stephenson)M.; reared on farm; widower. *c.* Martin.

Mayhew, Thomas Clay, co. agrl. agt., Salinas, Calif.

Teach. agr., Tulare high-sch., 1913–4; Agt. Madera Co., 1914–7; farmer, 1917–8; instr. agrl. ext., Univ. Calif. and agt. Monterey Co., 1918—. *b.* Vista, Calif., Dec. 19, 1886; *s.* James Thos. and Eliza (Gregory) M.; reared on farm; *m.* Hazel Helen Hyde, Nov. 29, 1913; *c.* Helen Elizabeth. B.S., Univ. Calif., 1912. Alpha Zeta.

Maynard, Leonard A., asst. prof. an. husb., Cornell Univ., Ithaca, N. Y.

Asst. chem., Ia. State Coll., 1911–2; asst. chem., R. I. Exp. Sta., 1912–3; present position, 1915—. 1st Lieut., Gas Defense Serv., Sanitary Corps, Nat. Army, 1917—. *b.* Hartford, N. Y., Nov. 8, 1887; *s.* Edward and Fannie (Cotton) M.; reared on farm. A.B., Wesleyan Univ., 1911; Ph.D., Cornell Univ., 1915. Phi Beta Kappa; Sigma Xi; Delta Tau Delta; Gamma Alpha.

Maynard, Samuel Taylor, hort., Northboro, Mass.

Prof. bot. and hort., Mass. Agr. Coll., 1879; dir. hort. div., Mass. Exp. Sta.; bot. and pom., Mass. State Bd. Agr. Sec. Mass. Fruit Assoc., 15 yrs. *Auth.:* Practical Fruit Grower, 1886; Landscape Gardening, 1899; Successful Fruit Culture, 1902; The Small Country Home, 1907. *b.* Hardwick, Mass., Dec. 6, 1845; *s.* Wm. and Sarah (Nourse) M.; reared in town; *m.* Mary E. Eddy, Dec. 25, 1873; 2d, Amy Barnes, June 16, 1892; *c.* Alice E., Howard E., Edward B., Ednah B. B.S., Mass. Agr. Coll., 1872.

Mayne, Dexter D., princ. Sch. Agr. and prof. agrl. pedagogy, Univ. Minn., University Farm, St. Paul, Minn.

Princ. schs., Fennimore, Wis., 1883–4; Elkhorn 1884–9; Ft. Atkinson, 1889–93; supt. and princ. schs., Janesville, 1893–1901; supt. schs., Ishpeming, Mich., 1901–2; present position, 1903—. *Auth.:* Modern Business Speller, 1899; Geography of Wisconsin; Office Methods and Business Practice, 1900; (with Goff) First Principles of Agriculture, 1904; Mayne's Sight Speller, 1906; (with C. J. Smith) Modern Business English, 1906; (with Hatch) High School Agriculture, 1913; Business Spelling Book, 1913; (with Brace) Farm Shop Work. *Ed.,* Midland School Journal, Wis. *b.* Beetown, Wis., May 14, 1863; *s.* Nicholas and Mary (Treloar) M.; reared rural community; *m.* Nellie G. Coman, 1889; *c.* James C., MacH., Dexter C., Nella. Platteville State Normal Sch., Wis., 1883.

Mayo, Nelson Slater, vet., 4753 Ravenswood Ave., Chicago, Ill.

Asst. vet., Mich. Exp. Sta., 1888–90; prof. vet. sci., Kans. State Agr. Coll., 1890–7; prof. vet. sci., Conn. Agr. Coll., 1897–1901; prof. vet. sci., Kans. State Agr. Coll., 1901–4; vice-dir. Cuban Exp. Sta. and chief dept. an. husb., 1904–9; prof. an. husb. and vet. sci., Va. Poly. Inst., 1909–13. Sec. Am. Vet. Med. Assoc., 1913–5; del. to 4th Nat. Vet. Congress, London, 1914. *Auth.:* Diseases of Animals, 1903. *Ed.,* Helpful Hints for the Veterinarian. *b.* Battle Creek,

Mich., Nov. 16, 1866; *s.* Perry and Mary A. (Bryant) M.; reared on farm; *m.* Mary L. Carpenter, Jul. 30, 1890; *c.* Marguerite, Dorothy, Robt., Louise. B.S., Mich. Agr. Coll., 1888; D.V.S., Chicago Vet. Coll., 1889; M.S., Mich. Agr. Coll., 1890. Phi Delta Theta.

McAdory, Isaac Sadler, prof. anat., Ala. Poly. Inst., Auburn, Ala.

Asst. physiology and bact., Ala. Poly. Inst., 1904–6; dem. in anat., McKillips Vet. Coll., 1906–7; present position, 1907—. *b.* Pleasant Hill, Ala., Aug. 13, 1882; *s.* I. W. and Alice (Sadler) M.; reared on farm and in town; *m.* Cora Hardy. B.S., Ala. Poly. Inst.; D.V.M., McKillips Vet. Coll., Chicago.

McBride, Charles Grover, asst. prof. agrl. ext., Penn. State Coll., State College, Pa.

Agrl. agt., Mercer Co., Pa., 1912–7; present position, 1917—. *b.* Buckthorn, Pa., May 13, 1886; *s.* Hugh D. and Alvaretta (Stecker) M.; reared on farm; *m.* Lois DeWitt, June 22, 1912. B.S., Penn. State Coll., 1911. Alpha Zeta.

McBride, James Nathan, state market dir., Mich. Agr. Coll., E. Lansing, Mich.

Prof. econ. and hist., Mich. Agr. Coll., 1904; manag. LaSal Copper Co.'s Smelter, 1897–1907; present position, 1916—. Mem. Mich. Legislature; mem. Mich. Milk Comn. Pres. Mich. Assoc. Farmers' Clubs; pres. Mich. Dairy Assoc. *Ed.*, Owosso Times. *b.* Mercer Co., Pa., Dec. 12, 1864; *s.* James S. and Mary (Offutt) M.; reared in country; *m.* Lois E. Dunbar, Nov. 3, 1893; *c.* Lois, Dorothea, James D. B.A., Univ. Mich., 1888.

McCall, Arthur G., chg. soil invests., Md. Exp. Sta., College Park, Md.

Sci., Bur. Soils, U. S. Dept. Agr., 1901–4; asst. prof. agron., Ohio State Univ., 1904–5; assoc. prof., 1905–6; prof., 1906–16; present position, 1916—. Vice-pres. Am. Soc. Agron. *Auth.:* The Physical Properties of Soils, 1905; Broom Corn Culture, 1912; Field and Laboratory Study of Soils, 1915; Field and Laboratory Study of Crops, 1916. *b.* Buena Vista, O., Nov. 11, 1874; *s.* M. D. and Elizabeth (Gillett) M.; reared on farm; *m.* Hattie M. Flower, 1896; *c.* Herbert Flower, Elizabeth, Dorothy Helen, Harriett. B.Sc., Ohio State Univ., 1900; Ph.D., Johns Hopkins Univ., 1916. Sigma Xi; Alpha Zeta.

McCall, Thomas Montgomery, asst. prof. hort., Northwest Sch. Agr. and Exp. Sta., Crookston, Minn.

Asst. ent., Ia. Exp. Sta., 1910; instr. hort., Ia. State Coll., 1910–1; present position, 1911—. Sec. Red River Valley Hort. Soc.; sec. Northwestern Minn. Agrl. Instrs. Assoc.; sec. Red River Valley Potato Growers' Assoc. *b.* Story Co., Ia. Dec. 25, 1887; *s.* John N. and Olive, (Quick) M.; reared on farm; *m.* Blanche Irene Fleetwood, June 12, 1912; *c.* Darwin Thomas. B.S., Ia. State Coll., 1910. Alpha Zeta; Delta Sigma Rho.

McCampbell, Charles Wilbur, prof. an. husb., Kans. State Agr. Coll., Manhattan, Kans.

Asst. an. husb., Kans. State Agr. Coll., 1910–2; asst. prof., 1912–4; assoc. prof., 1914–8; prof., 1918—. Pres. Nat. Assoc. of State Live-Stock Registry Bds.; sec. Kans. State Live-Stock Registry Bd.; sec. Kans. Improved Live-Stock Assoc.; sec. Kans. Horse Breeders' Assoc. *b.* Frankfort, Kans., Feb. 1, 1882; *s.* J. A. and Kate (Freeman) M.; reared on farm and in town; *m.* Jessie E. Apitz, 1913. B.S., Kans. State Agr. Coll., 1906; D.V.M., 1910; B.S.A., 1918. Alpha Zeta; Alpha Psi; Phi Kappa Phi; Beta Theta Pi.

McCandliss, Donald Alff, co. agrl. agt., Gulfport, Miss.

b. Fairmount, Ind., Dec. 24, 1891; *s.* Harry E. and Laura Harriet (Barr) M.; reared in town. B.S., Miss. A.&M. Coll., 1914.

McCann, John Joseph, co. agrl. agt., Little Falls, Minn.

Princ. city sch., Chippewa Falls, Wis., 1911–3; instr. agr., Spring Grove, Minn., 1915–8; instr. short-course, Hastings, 1915. Chm. Military Training Camp Assoc. for Houston Co. *b.* Rock Elm, Wis., Nov. 21, 1891; *s.* John A. and Kate (Hagan) M.; reared on farm. B.S. Univ. Minn., 1915.

McCarthy, William Edward, teach. agr., Dowagiac, Mich.

Co. dir. Boys' Working Reserve. *b.* Oakland Co., Mich., Apr. 12, 1886; *s.* Edward and Mary (Bigger) M.; reared on farm; *m.* Margaret Charlotte Jennings, Aug. 20, 1912. B.S., Mich. Agr. Coll., 1915.

McCheyne, Gertrude M., chg. home econ. ext. and state leader, Utah Agr. Coll., Logan, Utah.

Chg. home econ. ext., Purdue Univ., 1909–11; present position, 1912—. Dir. home econ., State Food Administration, 1917; chm. home econ. dept., State Fed. of Clubs, 1912. *b.* Southport, England, Dec. 9, 1877; *d.* Robt. and Minnie (Bowyer) M.; reared in city and country. B.S., Kans. State Univ., 1897; Kans. State Agr. Coll., 1908.

McChord, Robert Caldwell, acting prof. an. husb., Univ. Mont., Bozeman, Mont.

Instr. an. husb., Ia. State Coll., 1913–4; asst. prof., 1914–5; instr. an. husb., Purdue Univ., 1915–6; present position, 1916—. *b.* Lebanon, Ky., Jul. 18, 1888; *s.* R. C. and Lizzie (Harrison) M. A.B., Cent. Univ. of Ky., 1908; B.S.A., Ia. State Coll., 1913. Delta Kappa Epsilon; Alpha Zeta; Phi Kappa Phi.

McClean, Harry J., asst. prof. sociol., Univ. S. Calif., Los Angeles, Calif.

Instr. sociol., Univ. S. Calif., 1916–7; asst. prof., 1917—. Mem. Social Serv. Comn., City of Los Angeles, 1918—. Special attention to rural problems. *b.* Warren, O., Oct. 26, 1891; *s.* Marcus A. and Anna G. (Hoagland) M.; reared on farm; *m.* Hollace J. Shaw, Aug. 9, 1917. A.B., Stanford Univ., 1915; Juris Doctor, Univ. S. Calif., 1917. Tau Kappa Alpha; Sigma Iota Chi.

McClelland, Chalmer Kirk, agron., Ga. Exp. Sta., Experiment, Ga.

Asst. prof. agr., N. C. A. & M. Coll., 1902–6; sci. asst., Off. Farm Manag., 1906–7; supt. Hays Branch Exp. Sta., Kans., 1907–10; agron., Hawaii Exp. Sta., 1911–4; present position, 1914—. Farm ed., Atlanta Constitution, 1916—. Served in Spanish-American War. *b.* Andover, O., Sept. 12, 1877; *s.* Robt. Clement and Grace (Young) M.; reared on farm; *m.* Annie Bramlette, Feb. 19, 1908; *c.* Annie Grace, Chalmer K. Jr., Clement Bramlette. B.Sc., Ohio State Univ., 1898; M.S.A., Cornell Univ., 1902. Alpha Zeta.

McClure, Charles Elton, co. agrl. agt., Lebanon, Ind.

Farmer and stock raiser, 1894–1918. *b.* near Newton, Ind., May 22, 1871; *s.* Chas. D. and Martha A. (Haas) M.; reared on farm; *m.* Lillie B. Bittenbender, Dec. 19, 1894; *c.* Agnes Charline, Glena Irene, John Malcolm. B.S., Purdue Univ., 1890. Kappa Sigma.

McClure, Frank Donald, asst., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Instr. agr., secondary schs., 1911–6. Chm. Kans. Teach. Agr., 1914–5. *b.* Linn Co., Kans., Nov. 1, 1891; *s.* Chas. Wilkin and Sarah Catherine (Gibbs) M.; reared on farm and in town. B.Sc., Kans. State Agr. Coll., 1911.

McConnell, Charles Melvin, minister, Lakeville, O.

Minister Methodist Episcopal Church. Pres. Rural Ministers' Assoc.; mem. Country Church Com., Federal Council of Churches of Christ of Am. *b.* Indianapolis, Ind., Jan. 16, 1886; *s.* I. H. and N. J. (Chalfant) M.; reared on farm; *m.* Grace Dimmick, Apr. 20, 1911; *c.* Jane, Louise. A.B., Ohio Wesleyan Univ., 1907; S.T.B., Boston Univ. Sch. Theol., 1910. Delta Tau Delta.

McConnell, Olaus Jackson, specialist in cotton marketing, U. S. Dept. Agr., Box 729, Raleigh, N. C.

b. Carnesville, Ga., June 2, 1887; *s.* L. J. and Cora (Nelms) M.; reared in town; *m.* Lillian Fay Moss, June 23, 1909; *c.* Burke.

McCool, Merris Mickey, prof. soils, Mich. Agr. Coll., E. Lansing, Mich.

Asst. plant physiology, Cornell Univ., 1908–9; instr., 1909–12; asst. prof. soils, Ore. Agr. Coll., 1912–4; present position, 1914—. *b.* Amity, Mo., Aug. 31, 1883; *s.* John and Martha (Merris) M.; reared on farm; *m.* Nellie D. Riggs, Sept. 21, 1911. B.S., Univ. Mo., 1908; M.S., Cornell Univ., 1910; Ph.D., 1912. Sigma Xi; Alpha Zeta; Gamma Alpha.

McCord, John Earl, co. agrl. agt., Brookville, Pa.

Chm. food supply dept., Public Safety Com., Jefferson Co., 1917–8. *b.* Berwinsdale, Pa., Nov. 9, 1892; *s.* J. N. and Irene (Dinesha) M.; reared on farm; *m.* Helen Miller, June 5, 1917. B.S., Penn. State Coll., 1915. Lambda Chi Alpha.

McCormick, Albert Glenn, co. agrl. agt., Stillwater, Minn.

Dir. agr., high-sch., Windom, Minn., 1912–7; Austin, Minn., 1917–8; agt. Washington Co., 1918—. *b.* Danville, Ia., Aug. 31, 1883; *s.* J. N. and E. Jane (Rogers) M.; reared on farm; *m.* Leona B. Peshok, June 20, 1916. B.S.A., Ia. State Coll., 1911. Delta Theta Sigma.

McCoy, Walter Eli, co. agrl. agt., Mad River Nat. Bank Bldg., Springfield, O.

Asst. soils, Ohio State Univ., 1912–3; agrl. ext., 1913—. *b.* Washington C. H., O., Jan. 10, 1887; *s.* Mart L. and Anna M. (Parrett) M.; reared on farm; *m.* Ruth C. Allen, Jul. 12, 1913. B.S.A., Ohio State Univ., 1912. Alpha Zeta.

McCrary, Otis Frederick, distr. agrl. agt., Washington, N. C.

Teach. math. and sci., Cyrene Inst., Ga., 1912–3; teach. agr. and sci., high-sch., Verda, La., 1913–4; high-sch., Hampton, Va., 1914–5; agt. Lenoir Co., N. C., 1915–7; present position, 1917—. *b.* Asheville, N. C., May 30, 1884; *s.* Silas and Emma (Ball) M.; reared on farm. B.S., Clemson Agr. Coll., 1912.

McCrory, Samuel Henry, chief drainage invests., Bur. Public Roads, U. S. Dept. Agr., Washington, D. C.

b. Iowa City, Ia., May 5, 1879; *s.* Chas. Robt. and Ruth Ann (Stevenson) M.; reared on farm; *m.* Blanche Severe, June 30, 1909; *c.* Dorothy Emogene, Ruth Roberta. B.S. in C.E., State Univ. Ia., 1904; C.E., 1908.

McCue, Charles Andrew, prof. hort., Del. Coll., Newark, Del.

Instr. hort., Mich. Agr. Coll., 1904–7; prof. hort. and hort. Exp. Sta., Del. Coll., 1907—. Chm. program com., Am. Soc. Hort. Sci., 1916–7; pres., 1918. Hort. ed., Practical Farmer, 1915–7. *b.* Cass City, Mich., May 29, 1879; *s.* Chas. E. and Catherine (Campbell) M.; reared on farm; *m.* Florence Beebee, 1906 (d. 1907); 2d, Essie Willis, 1912; *c.* John Beebee. B.S., Mich. Agr. Coll., 1901; grad. student Mich. Agr. Coll., 1903–4, Univ. Penn., 1911 and 1913.

McDonald, Elmer M., asst. prof. farm crops, Univ. Mo., Columbia, Mo.

Teach. sci., high-sch., Charleston, Ill., 1905–7; instr. agron., Univ. Ill., 1910–2; asst. prof. agron., Mass. Agr. Coll., 1912–5; present position, 1915—. Second Lieut. infantry, Nat. Army, 1917—. *b.* Terna, Ill.; *s.* John T. and Nancy (Massey) M.; reared on farm. B.S., Univ. Ill., 1910. Sigma Xi; Alpha Zeta; Gamma Alpha.

McDonald, May C., in chg. home econ. ext., N. D. Agr. Coll., Agricultural College, N. D.

Teach. dom. sci., Univ. Minn., 1908–12; home econ. ext., 1913–5; chg. home econ. ext., N. D., 1916—; state leader home dem. agts., 1917—. State chm. Food Production and Conservation. *b.* Milwaukee, Wis., Nov. 22, 1884; *d.* Frank R. and Ellen (Brady) M.; reared in city. B.S., Univ. Minn., 1907; M.A., Columbia Univ., 1913. Phi Upsilon Omicron.

McDonald, Murl, asst. co. agt. leader, Ia. State Coll., Ames, Ia.

Agrl. ext. dept., Ia. State Coll., 1910–2; co. Y. M. C. A. work, 1912–4; present position, 1914—. Revisor, Bowman Crossley Corn Book. *b.* Clay Co., Neb., Jan. 1, 1886; *s.* Millard L. and Emma Lenora (Dixon) M.; reared on farm. B.S.A., Ia. State Coll., 1911. Alpha Zeta; Delta Sigma Rho.

McDonel, Karl Hanchett, asst. ext. dir., Mich. Agr. Coll., E. Lansing, Mich.

Farm manag. dem., U. S. Dept. Agr., 1916–7; superv. ext. schs. in Mich., 1917–8; present position, 1918—. *b.* Eaton Co., Mich., Apr. 11, 1893; *s.* Frederick R. and Luttie (Hanchett) M.; reared on farm. B.S., Mich. Agr. Coll., 1916. Beta Sigma.

McDowell, Frank N., co. agrl. agt., Kenansville, N. C.

b. Charlotte, N. C., Oct. 26, 1889; *s.* John and Emma (Neely) M.; reared on farm; *m.* Sara Wooten, June 14, 1916 (d. 1918). B.S.A., N. C. A.&M. Coll., 1910. Kappa Sigma; Alpha Zeta.

McDowell, Milton S., dir. agrl. ext., Penn. State Coll., State College, Pa.

b. Milroy, Pa., Jan. 13, 1872; *s.* Wm. Eliott and Louisa (McGuire) M.; reared on farm; *m.* Mable Snyder, June 28, 1900; *c.* 4. B.S., Penn. State Coll., 1892; M.S., 1897. Kappa Sigma; Alpha Zeta.

McFarland, John Horace, master printer, lect., auth., Mt. Pleasant Press, Harrisburg, Pa.

Pres. Am. Civic Assoc., 1904—; vice-pres. Nat. Municipal League, 1914—. Mem. Harrisburg Park Comn., 11 yrs.; mem. Pa. Conservation Comn. Lect. on civic betterment, trees, flowers. *Auth.:* Photographing Flowers and Trees, 1902; Getting Acquainted with the Trees, 1904; My Growing Garden, 1916. *Ed.*, American Rose Annual, 1916—. *b.* McAlisterville, Pa., Sept. 24, 1859; *s.* Geo. F. and Adeline D. (Griesemer) M.; reared in suburbs; *m.* Lydia S. Walters, May 22, 1884; *c.* Helen L., Robt. B.

McFarland, John William, co. agrl. agt., Delphi, Ind.

Sch. teach., 1904–6; deputy state chem. of Ind., 1910–3; agt. Benton Co., 1913–6; farmer, S. Bend., 1917; agt. Carroll Co., 1918—. *b.* Tippecanoe Co., Ind., Mar. 9, 1884; *s.* Chas. W. and Mary Louise (Burkle) M.; reared on farm; *m.* Mabelle Westfall, Nov. 28, 1914; *c.* Virginia Westfall. B.S.A., Purdue Univ., 1910. Alpha Gamma Rho.

McGinnis, Nestor Massie, assoc. prof. hort., Tex. A.&M. Coll., College Station, Tex.

Dir. rural arts and sci., Coll. Ind. Arts, Denton, Tex., 1910–5; present position, 1915—. Sec. Denton Co. Exp. Assoc., 1913–5. *b.* Terrell, Tex., Oct. 6, 1885; *s.* Chas. Taylor and Nancy (Pratt) M.; reared on farm; *m.* Madeline Longcope, May 30, 1913. B.S., Tex. A.&M. Coll., 1908; grad. student, Cornell Univ., 1908–10. Delta Sigma Phi.

McGinty, Rupert Alonzo, assoc. prof. hort., Colo. Agr. Coll., Fort Collins, Colo.

Instr. hort., Colo. Agr. Coll., 1913–5; asst. prof., 1915–7; assoc. prof., 1917—. *b.* West Point, Ga., May 2, 1886; *s.* John Franklin and Laura (Spikes) M.; reared on farm and in city; *m.* Letitia Cross, June 11, 1914; *c.* Thos. Franklin. B.S., Ala. Poly. Inst., 1913. Alpha Zeta.

McHargue, James Spencer, research chem., Ky. Exp. Sta., Lexington, Ky.

With U. S. Bur. Standards, Jul.–Nov. 1906; Hygienic Lab., Washington, 1906–7; chm. Ky. Geol. Survey, 1907–12; present position, 1912—. Fellow A. A. A. S. *b.* Ky., Jan. 29, 1878; *s.* James and Nancy (Norvell) M.; reared on farm; *m.* Minnie Lee Foley, Dec. 24, 1913. B.S., Univ. Ky., 1906; M.S., 1914. Alpha Chi Sigma.

McHatton, Thomas Hubbard, prof. hort., Univ. Ga., Athens, Ga.

Hort., Ga. Exp. Sta., Jan.–Nov. 1908; present position, 1908—. Sec. Ga. State Hort. Soc. *Part auth.:* Land Teaching, 1910. Hort. ed., Southern Ruralist, 1908—. Capt., Aviation Sect., Signal Corps, Nat. Army, 1918—. *b.* Brooklyn, N. Y., Nov. 12, 1883; *s.* Henry and Eliza (Hubbard) M.; reared in town and on farm; *m.* Marie Lustrat, June, 1911; *c.* Marie Lustrat, Elnore Elizabeth. B.S., Spring Hill Coll., Mobile, Ala., 1903; B.S., Mich. Agr. Coll., 1907; Sc.D., Spring Hill Coll., 1907. Alpha Zeta.

McHenry, Ralph Frank, state boys' club agt., Md. Agr. Coll., College Park, Md.

Field asst. in tobacco invest., U. S. Dept. Agr., 1916; asst. boys' club work, Md. Agr. Coll., 1916–7; state agt., 1917—. *b.* Frederick, Md., Feb. 11, 1894; *s.* Allen and Julia (Baker) M.; reared in town. B.S., Md. Agr. Coll., 1916. Sigma Nu.

McIndoo, Norman Eugene, insect physiologist, Bur. Ent., U. S. Dept. Agr., Washington, D. C.

Teach. biol., high-sch., Fond du Lac, Wis., 1906–8. Collected fish in Cuba for Ind. Univ. Museum, summer 1905. *b.* Lyons, Ind., Apr. 11, 1881; *s.* Jacob and Katherine Sarah (Halstead) M.; reared on farm; *m.* Emma C. Pabst, Dec. 23, 1911; *c.* Thos. Montgomery, Mary Velisha. A.B., Ind. Univ., 1906; A.M., 1909; Ph.D., Univ. Penn., 1911. Sigma Xi.

McInerney, Thomas Joseph, asst. prof. dairy ind., Cornell Univ., Ithaca, N. Y.

Asst. dairy ind., Cornell Univ., 1910–2; instr., 1912–3; instr. and invest., 1913–6; asst. prof., 1917—. *b.* Elmira, N. Y., Apr. 13, 1885; *s.* Patrick and Margaret (Looney) M.; reared on farm; *m.* Margaret L. Mahoney, Sept. 24, 1913; *c.* Thos., Margaret. B.S.A, Cornell Univ., 1910; M. S. A., 1912.

McIntosh, Arza D., agrl. rep., Dept. Agr., Stirling, Ont.

b. Winchester Springs, Ont., Feb. 27, 1875; *s.* James Norman and Louisa (Thornton) M.; reared on farm; *m.* Catherine Maria Barkley, Jan. 1, 1901;

c. Lera Mabel, John Sheldon Ross, Geo. Roosevelt, Elva Louise, James Norman, Joseph Donald, Nina Jean, Lois Helena. B.S.A., Toronto Univ., 1909.

McKay, Andrew William, specialist in marketing, Bur. Markets, U. S. Dept. Agr., Wsahington, D. C.

Expert in fruit storage, U. S. Dept. Agr., 1908–13; pom., 1913–4; invest. fruit transportation, 1916–7; present position, 1918—. *b.* River John, N. S., Nov. 20, 1883 (naturalized 1909); reared on farm; *m.* Margaret Curtis, Jul. 22, 1913; *c.* Curtis Andrew, James Creighton. B.S.A., Cornell Univ., 1908.

McKay, Marion Bertice, asst. plant path., Ore. Exp. Sta., Corvallis, Ore.

Sci. asst. plant path., U. S. Dept. Agr., 1912–5; present position, 1916—. *b.* Humphreys, Mo., Jul. 14, 1887; *s.* Henry Columbus and Sarah Mariah (Palmer) M.; reared on farm; *m.* Venus Worrell Pool, Nov. 7, 1915; *c.* Muriel Pool. B.S., Okla. A.&M. Coll., 1911; M.S., Univ. Wis., 1915.

McKee, John Milton, co. agrl. agt., Washington, Pa.

Asst. agron., Penn. State Coll., 1910–1; with soil survey, Pa., 3 summers; farm manag., N. J., 8 mos.; agt. Washington Co., 1912—. *b.* Curllsville, Pa., Sept. 23, 1885; *s.* H. P. and Annie (Craig) M.; reared on farm; *m.* Beth Lilley, Oct. 24, 1912; *c.* Sara Anne. B.S., Penn. State Coll., 1910. Alpha Zeta.

McKee, Robert Bruce, co. agrl. agt., Kalispell, Mont.

Teach. agr. and manual training, high-sch., N. D. and Mont., 2 yrs. *b.* Dwight, N. D., June 8, 1894; *s.* James and Janet M.; reared on farm; *m.* Myrtle Flatin, Dec. 12, 1917. B.S.A., N. D. Agr. Coll. Alpha Gamma Rho; Alpha Zeta.

McKelvey, Frank Hotchkiss, farmer, Sparta, Ill.

Pres. Randolph Co. Farm Bur. *b.* Sparta, Ill., June 16, 1882; *s.* Sidney A. and Hattie (Hotchkiss) M.; reared on farm; *m.* Gertrude Ann Lee, Feb. 9, 1910; *c.* Mary Frances, Franklin Hotchkiss. B.S., Univ. Ill., 1907. Phi Delta Theta; Alpha Gamma Rho.

McKelvie, Samuel R., publisher The Nebraska Farmer, Lincoln, Neb.

Mem. Neb. Legislature, 1911; Lieut.-Governor, 1913. *b.* Fairfield, Neb., Apr. 15, 1881; *s.* Sam and Jennie (Glandon) M.; reared on farm; *m.* Flossie DeArnold, June 19, 1904. Student Univ. Neb. Alpha Tau Omega.

McKerrow, George, farmer and stock-breeder, Pewaukee, Wis.

Pres. Wis. State Bd. Agr., 13 yrs.; supt. Wis. farmers' insts. and ed. annual bull., 20 yrs. Pres. Wis. Dairymen's Assoc. Made fifteen trips to Great Britain and Channel Isls. *b.* Waukesha Co., Wis., Apr. 1, 1852; *s.* Gavin and Elizabeth (Howett) M.; reared on farm; *m.* Isabella Rogers, Sept. 26, 1878; *c.* Wm. A., Gavin W. Student Carroll Coll., Waukesha, short term.

McKillican, William Christie, supt. expl. farm, Brandon, Man.

Rep. Seed Branch, Dept. Agr., in Alta. and B. C., 1905–11; present position, 1911—. Dir. Man. Provincial Exhibition; dir. Man. Swine Breeders' Assoc. *b.* Breadalbane, Ont., Aug. 23, 1882; *s.* Wm. E. and Emma May (Christie) M.; reared on farm; *m.* Anna M. Stewart, Sept. 2, 1909; *c.* Mary E. B.S.A., Ont. Agr. Coll., 1905.

McKinley, Bruce, co. agrl. agt., Elizabeth, W. Va.

Princ. Eufaula high-sch.; post-master, Eufaula, Okla., 1906–14. *b.* Pullman, W. Va., June 27, 1874; *s.* Wm. H. and Mary J. (Pritchard) M.; reared on farm; *m.* Kittie Leonard, 1902; *c.* Wynema, Leonard, Hubert. A.B., W. Va. Univ., 1900; B.S.A., 1918.

McKune, Emery F., invest. in marketing, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Asst. hort., Colo. Agr. Coll., 1915–6. *b.* Faribault, Minn., Jul. 11, 1888; *s.* Fred and Clarissa (Goar) M.; reared on farm. B.S., Colo. Agr. Coll., 1915; M.S., Ia. State Coll., 1917.

McLean, Donald, co. agrl. agt., Twin Falls, Ida.

Teach. agr. and sci., New Plymouth, Ida., high-sch., 1915–6; supt. schs., Roswell, 1916–7; present position, 1917—. Range foreman, Ore., Colo., Utah, 6 yrs.;

farmer, Ida., 4 yrs. *b.* Elyria, O., May 11, 1885; *s.* Lester and Mary Dewey (Shaw) M.; reared in city. Student Princeton Univ., 1903–4. Grad. short-course, Univ. Wis., 1909.

McLean, John A., prof. an. husb., Univ. B. C., Vancouver, B. C.
Assoc. prof. an. husb., Ia. State Coll., 1906–8; an. husb., Miss. Exp. Sta., 1908–10; Mass. Agr. Coll., 1911–6; present position, 1916—. *b.* Ormond, Ont., May 16, 1878; *s.* Thos. and Jessie (McDonald) M.; reared on farm; *m.* Margaret Prendergast, 1907. B.A., McMaster Univ., Toronto, 1902; B.S.A., Ia. State Coll., 1905.

McLendon, James Ward, co. agrl. agt., Florence, S. C.
Teach., Ga. Military Inst., 1910–1; dairy farmer, 1912–7. *Ed.*, Timmonsville Enterprise, 1907–10. *b.* Timmonsville, S. C., Feb. 17, 1885; *s.* David and Mary (Ward) M.; reared in town. B.S., Clemson Agr. Coll., 1907.

McLendon, William Eugene, sci. in soil survey, Bur. Soils, U. S. Dept. Agr., Washington, D. C.
Asst., Clemson Agr. Coll., 1901–2; field work in U. S. Soil Survey, 1902–13; insp. of soil survey work, Northern Div., 1913—. *b.* Darlington Co., S. C., Dec. 28, 1877; *s.* Thos. J. and Ellen A. M.; reared on farm; *m.* Annie Keene Barret, Oct. 5, 1905; *c.* Annie Laurie. B.S., Clemson Agr. Coll., 1901.

McMillan, Samuel A., assoc. prof. agron., Tex. A.&M. Coll., College Station, Tex.
Prof. rural arts, Coll. Ind. Arts, Denton, Tex., 1910–1; instr. agron., Tex. A. & M. Coll., 1911–3; asst. prof., 1913–5; assoc. prof., 1915—. *b.* Bem, Mo., Mar. 9, 1888; *s.* Thos. J. and Charotte (Wacker) M.; reared on farm; *m.* Carrie Lebo, Dec., 1914; *c.* Samuel A. Jr., Thos. O. B.S., Tex. A.&M. Coll., 1909; M.S.A., Cornell Univ.

McMurdo, George Asbury, instr. agr., Lamar Union High-Sch., Lamar, Colo.
Asst. dry land agr., Akron Field Sta., O., 3½ yrs.; co. agrl. agt., Anadarko, Okla., 6 mos. *b.* Franktown, Colo., Sept. 5, 1884; *s.* David and Anna Jane (Munroe) M.; reared on ranch; *m.* Hazel Allen, June 3, 1914 (d.); *c.* David Allen. B.S., Colo. Agr. Colo., 1913.

McMurty, Ira B., co. agrl. agt., Cheboygan, Mich.
Teach., Ill., 9 yrs.; farmer, Mason Co., Mich., 1912–7. *b.* Boonville, Ind., Aug. 8, 1873; *s.* Isaac and Eliza J. (Brashears) M.; reared on farm; *m.* Lillie W. Stewart, June 12, 1900; *c.* Vivian Inez. Grad. Ill. State Normal Univ., 1904; student Mich. Agr. Coll.

McNair, Albert Düy, agrst., Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.
Supt. Exp. Farm, Southern Pines, N. C., 1901–3; assoc. ed., Tex. Farm and Ranch, 1906–7; present position, 1908—. *b.* Dansville, N. Y., Oct. 18, 1866; *s.* David and Alice (McNair) M.; reared on farm; *m.* Georgie S. Stevens, Oct. 17, 1900; *c.* Alice. Student Univ. Minn., 3 yrs.

McNamara, Edward W., farmer, Winfield, N. Y.
Mem. legislative com., Fed. Bd. Farm Organizations. *b.* Winfield, N. Y., Jan. 1, 1869; *s.* Thos. W. and Mary (Hastings) M.; reared on farm.

McNeal, Thomas Allen, ed. Farmers' Mail and Breeze, Topeka, Kans.
Ed. Medicine Lodge Cresset, 1879–84; established Kansas Breeze, 1894. Mem. Kans. Legislature, 1885–7; mayor Medicine Lodge, 1890; governor's sec., 1905; state printer, Kans., 1905–11. *Auth.:* Tom McNeal's Fables, 1900. *b.* Marion Co., O., Oct. 14, 1853; *s.* Allen and Rachel (Brownlee) M.; reared on farm; *m.* Anna Belle McPherson, Aug. 26, 1884. Student O. Central, Oberlin Coll., Hillsdale Coll.

McNown, Mark Freeman, co. agrl. agt., Elkader, Ia.
Supt. and dir. agr., consolidated sch., Tintah, Minn., 1912–5; dairy tester, Univ. Wis., 1915–6; farmer, 1916; instr. agr., high-sch., Brainerd, Minn., 1917; agt. Clayton Co., Ia., 1918—. *b.* Mauston, Wis., May 27, 1886; *s.* Henry and Cornelia (Curtis) M.; reared on farm. B.S., Univ. Wis., 1912.

McNutt, Matthew Brown, field sec., Presbyterian Bd. of Home Missions, Wooster, O.
Teach. distr. sch., 3 yrs. and princ.

public schs., 2 yrs.; pastor Presbyterian Church, DuPage, Ill., 12 yrs.; present position, 1912—. Special attention to country-life problems. *b.* Leatherwood, Pa., Mar. 18, 1869; *s.* Matthew and Mary (Kirkpatrick) M.; reared on farm; *m.* Eliza Gertrude Rogers, June 25, 1902; *c.* Malcolm Rogers, Wilfrid Daniel, Mary Elizabeth. Mast. of Elements, Clarion State Normal, 1892; B.A., Drake Univ., 1897; B.D., McCormick Theol. Sem., 1900.

McPheeters, Archibald Allen, co. agrl. agt., Farmington, Minn.

Dir. agr., public schs., Two Harbors, Minn., 1912–4; dir. agr., high-sch., Hastings, 1915–6; agt. Logan Co., Okla., 1916–7; agt. Dakota Co., Minn., 1917—. *b.* Bates Co., Mo., Mar. 30, 1890; *s.* Thos. R. and Margaret Elizabeth (Hunter) M.; reared on farm; *m.* L. B. Johnson, June 14, 1916; *c.* A. A. Jr. B.S., Okla. A.&M. Coll., 1912.

McRae, William Duncan, state rural sec. Y. M. C. A., Los Angeles, Calif.

b. Dunvegan, Ont., Nov. 29, 1871 (naturalized 1912); *s.* Malcolm D. and Jennie (McAlpine) M.; reared on farm; *m.* Clara Ethel Bates, Sept. 2, 1902; *c.* Horace Truman, Gordon Bates, Wm. D. Jr. A.B., Olivet Coll., 1901. Phi Alpha Pi.

McSparran, John Aldus, farmer, Furniss, Pa.

Master Pa. State Grange. *b.* Furniss, Pa., Oct. 22, 1873; *s.* James G. and Sara M. (Collins) M.; reared on farm; *m.* Bettie Harrison Goodwyn, Dec. 31, 1902; *c.* Sarah Margaret, Lacy Isabelle, Chas. Goodwyn, John Collins. Ph.B., Lafayette Coll., 1893.

McWhorter, Ovid Tullius, co. agrl. agt., Montesano, Wash.

Agrst., State Training Sch., Chehalis, Wash., 1912–4; agrl. agt., Clallam and Jefferson Cos., 1915–8; agrl. agt., Grays Harbor Co., 1918—. *b.* Berlin, W. Va., Mar. 3, 1884; *s.* Lucullus Virgil and Ardelia (Swisher) M.; reared on farm; *m.* Bertha Leone Heffner, Nov. 26, 1915. B.S., Wash. State Coll., 1912. Alpha Zeta.

Mead, Elwood, prof. rural institutions, Univ. Calif., Berkeley, Calif.

Prof. irrig. engin., Colo. Agr. Coll., 1883–8; state engin., Wyo., 1888–98; chief irrig. invest., U. S. Dept. Agr. and prof. irrig. institutions, Univ. Calif., 1898–1907; chm. State Water Comn., Victoria, Australia, 1907–15; present position, 1915—; chm. State Land Settlement Bd., 1915—. *b.* Patriot, Ind., Jan. 16, 1858; *s.* Daniel and Lucinda (Davis) M.; reared on farm. B.S., Purdue Univ., 1882; C. E., Ia. State Coll., 1883; D. Engin., Purdue Univ., 1904.

Meek, Elizabeth Breckenridge, asst. prof. bact., Penn. State Coll., State College, Pa.

Instr. zool., Penn. State Coll., 1898–1900, 1903–5; asst. prof. bact., 1905–9; now on leave of absence. *b.* Bellefonte, Pa.; *d.* P. Gray and Susanna (Meek) M.; reared in city. B.S., Penn. State Coll., 1889; M.S., 1898; grad. student Univ. Chicago, 1900–1, 1906–7, 1909. Phi Kappa Phi.

Meek, Joseph Henry, co. agrl. agt., Pulaski, Va.

Princ. high-sch., Stephen City, Va., 1912–3; Dinwiddie, 1913–7; agt. Pulaski Co., 1917—. Pres. Dinwiddie Co. Teachers' Assoc., 1913–7. *b.* Rural Retreat, Va., Feb. 22, 1890; *s.* Chas. J. and Mollie E. (Buck) M.; reared on farm. A.B., Roanoke Coll., Salem, Va.; grad student agr., Univ. Wis.

Meeks, James Riley, co. agrl. agt., Fort Wayne, Ind.

Asst. prof. an. husb., N. Mex. A.&M. Coll., 1914–7; asst. prof. in chg. dairy dept., 1917–8; co. agt., 1918—. *b.* Thorntown, Ind., Mar. 15, 1890; *s.* Howard and Rosie (Riley) M.; reared on farm; *m.* Olive Woody, Aug. 17, 1915; *c.* Mary Elizabeth. B.S.A., Purdue Univ., 1914.

Melander, Axel Leonard, prof. ent., Wash. State Coll., Pullman, Wash.

Instr. ent., Wash. State Coll., 1904–6; prof., 1906—; head dept. zool., 1907—; asst. ent., Wash. Exp. Sta., 1904–6; ent., 1906—. Fellow A. A. A. S.; fellow Ent. Soc. Am. and vice-pres., 1916. *Auth.:* (with Brues) Key to Families of North American Insects, 1915. *Assoc. ed.,* Better Fruit; Psyche. *b.* Chicago, Ill., June 3, 1878; *s.* Silas P. and Eda Mathilda (Bjork) M.; reared in city; *m.* Mabel Evans, Mar. 3, 1903; *c.* Chas. Lewis, Ivar Evans. B.S., Univ. Tex., 1901; M.S., 1902; Sc.D., Harvard Univ., 1914. Sigma Xi.

Melchers, Leo Edward, assoc. prof. bot., Kans. State Agr. Coll., Manhattan, Kans.

Asst. hort. ext. schs., O., 1912; asst. plant path., Kans. Exp. Sta., 1913–5; instr. bot., 1915; collaborator cereal invests., U. S. Dept. Agr., 1916; asst. prof. bot., Kans. State Agr. Coll., 1916–8; assoc. prof., acting head dept. and state plant path., 1918—. *b.* Toledo, O., Aug. 1, 1889; *s.* Edward and Florentine (Laurer) M.; reared in city; *m.* Iva M. Lewis, May 18, 1916. B.S., Ohio State Univ., 1912; M.Sc., 1913. Sigma Xi; Gamma Sigma Delta; Phi Kappa Phi.

Melhus, Irving E., prof. plant path., Ia. State Coll., Ames, Ia.

Plant. path., Bur. Plant Ind., 1911–5; present position, 1916—. *b.* Creston, Ill., Apr. 2, 1880; *s.* Ole and Ida (Enger) M.; reared on farm; *m.* Elizabeth Williamson, 1907; *c.* Sarah, Janet. B.S., Ia. State Coll., 1906; Ph.D., Univ. Wis. Sigma Xi; Gamma Sigma Delta; Phi Kappa Phi; Alpha Tau Omega.

Melvin, Robert T., co. agrl. agt., Burgaw, N. C.

b. White Oak, N. C.; *s.* Robt. A. and Varina Davis (Singletary) M.; reared on farm; *m.* Nina Boone, June 19, 1915; *c.* Mary Louise. B.S.A., N. C. A. & M. Coll., 1913. Alpha Zeta.

Mendenhall, Dean Warner, co. agrl. agt., Glendive, Mont.

Teach. agr., high-sch., Barnesville, Minn., 1914–6; Maddock, N. D., 1917. *b.* W. Middleton, Ind., June 21, 1888; *s.* Simeon W. and Elizabeth (Johnson) M.; reared on farm; *m.* Esther Vera Seaman, May 26, 1917. B.S.A., N. D. Agr. Coll., 1914.

Mendoza, Alfred A., co. agrl. agt., Opelousas, La.

In chg. agr. and coach athletics, high-sch., Patterson, La., 1917–8. *b.* Jeanerette, La., Dec. 25, 1889; *s.* Louis A. and Laura (Frahan) M.; reared on farm; *m.* Gladys Spring, Aug. 30, 1917. Grad. State Normal, Natchitoches, La., 1917.

Merchant, Allen S., co. agrl. agt., Cortland, N. Y.

Farm manag., 12 yrs.; co. agt., 1915—. *b.* Warsaw, N. Y., June 16, 1878; *s.* Wesley and Alice (Howes) M.; reared on farm; *m.* Sarah Whittaker, Oct. 6, 1903; *c.* Wilbur W. B.Sc., Rutgers Coll., 1903; M.Sc., 1907.

Mercier, William Benjamin, agrst. and field agt., U. S. Dept. Agr., Washington, D. C.

Farm manag., La. State Exp., Sta. 1892–5; farmer, Miss., 1895–1909; present position, 1909—. *Co.-auth.:* Knapp Method of Growing Cotton, 1913. First Lieut. Miss. Nat. Guards. *b.* Summit, Miss., Sept. 6, 1868; *s.* Geo. W. and Sarah F. (Lane) M.; reared on farm; *m.* Cora E. Spikes, Sept. 20, 1893; *c.* Florence Sinclair. B.S., Miss. A.&M. Coll., 1892.

Meredith, Edwin Thomas, pub. Successful Farming, Des Moines, Ia.

Pub. Farmers' Tribune, 1896–1902; Successful Farming, 1902—. Del. at Large, Dem. Nat. Convention, 1916. Dir. Chicago Fed. Reserve Bank; dir. U. S. Chamber Commerce. Mem. Excess Profits Bd., U. S. Treasury Dept.; mem. Am. Mission to Great Britain and France, 1918. *b.* Avoca, Ia., Dec. 23, 1876; *s.* T. O. and Minnie M. (Marsh) M.; reared on farm and in town; *m.* Edna C. Elliott, Jan. 8, 1896; *c.* Mildred Marie, Edwin T. Jr. B.S., Highland Park Coll., Des Moines.

Meriwether, Charles Nicholas, farmer, Trenton, Ky.

b. Ark., 1849; *s.* J. H. and Lucy E. (McClure) M.; reared on farm; *m.* Kitty Tutwiler; *c.* Lucy McClure, Robt. Tutwiler, Henry Tutwiler, Leonard Tutwiler, Nicholas Hunter, Paoli Ashe. B.S., C.E., Washington and Lee Univ., 1872.

Merrill, Frederick Augustus, prof. rural econ. and sociol., State Normal Sch., Athens, Ga.

Teach. common schs., Ga.; prof. sci., Union Baptist Inst., Mt. Vernon, Ga., 1906–8; prof. geography and nature-study, State Normal Sch., Athens, 1908–14; prof. rural econ. and sociol., 1914—; head dept. geography, Univ. Ga. Summer Sch., 1906–15; prof. geography, Summer Sch. of the South, Univ. Tenn., 1915—; prof. rural educ., Johns Hopkins Univ., 1917; dir. for southern states, U. S. Sch. Garden Army, Bur. Educ., 1918—. *Auth.:* What to Teach in Nature-Study, 1909; Field and Laboratory Note Book in Physical Geography, 1911; Geography

of the Soils of Georgia, 1911; Primary Geography of Georgia, 1913; Advanced Geography of Georgia, 1913; (with L. S. Ivins) Practical Lessons in Agriculture, 1913; Geographic Readers, Vols. I, II, III, IV. *Ed.* and pub., The Educational Monthly. *b.* Boston, Mass., June 15, 1875; *s.* Samuel and Lucy (Urann) M.; *m.* Effie Smith, Dec. 22, 1909. B.S., Mass. Agr. Coll., 1899; B.Sc., Boston Univ., 1899.

Merrill, George Enoch, co. agrl. agt., Santa Rosa, Calif.

Asst. agrst., Nat. Farm Sch., Doylestown, Pa., 1904–5; special field agt., U. S. Dept. Agr., 1905–8; agrl. ed., Inter. Correspondence Schs., Scranton, Pa., 1908–9; chief deputy hort. comnr. for Calif., 1911–3; agt. Sonoma Co., 1918—; apricot grower, 1913—. Sec. Calif. Prune and Apricot Growers' Organization Com. *b.* Newberryport, Mass., Mar. 5, 1883; *s.* Geo. F. and Hannah B. (Moulton) M.; reared on farm; *m.* Sophie E. Schoenheit, Jul. 20, 1912; *c.* Margaret. B.S., N. H. A.&M. Coll., 1902; B.S.A., Cornell Univ., 1902. Kappa Sigma.

Merrill, Joseph Henry, asst. prof. and asst. ent. Exp. Sta., and state apiarist, Kans. State Agr. Coll., Manhattan, Kans.

Present position, 1912—. *b.* Danvers, Mass., Nov. 12, 1881; *s.* Joseph and Mary Frances (Sawyer) M.; reared in town; *m.* Lillian Briggs, Sept. 21, 1912; *c.* Joseph Briggs, Frances Somerville. B.S., Dartmouth Coll., 1905; Ph.D., Mass. Agr. Coll., 1914. Phi Gamma Delta; Phi Kappa Phi.

Merrill, Leon S., dean Coll. Agr. and dir. ext., Univ. Me., Orono, Me.

Present position, 1911—. Sec. Me. Dairymen's Assoc. *b.* Solon, Me., Dec. 22, 1864; *s.* Stephen and Jerusha (Dean) M.; reared on farm; *m.* Alice E. Wilson, Aug. 12, 1884; *c.* Gladys H., Earl Stephen. Grad. Bowdoin Med. Coll., 1889. Phi Kappa Phi; Alpha Zeta.

Merrill, Lorin Asa, asst. state leader co. agts., Utah Agr. Coll., Logan, Utah.

Asst. dairyman, 1897–1900; manag. creamery, 1900–7; farmer, 1907–13; co. agt., 1913–6. Bishop Mormon Church, 1907–13. *b.* Richmond, Utah, Apr. 4, 1876; *s.* M. W. and Almira J. (Bainbridge) M.; reared on farm; *m.* Laura L. Reese, June 13, 1900; *c.* Milton Virgil, Asa June, Harold, Dean, Laura, Christian, Liona. B.S., Utah Agr. Coll., 1896.

Merrill, Louis Fowler, co. agrl. agt., Hackensack, N. J.

Instr. agron., short-course, Rutgers Coll., 1912–3; asst. soils, N. J. Exp. Sta., 1912–3; supt. farm dem., ext. dept., Rutgers Coll., 1914—. *b.* Larchmont, N.Y., Jul. 24, 1884; *s.* Wm. O. and Kate Elizabeth (Fowler) M.; reared on farm; *m.* Olive Frances La Rose, Oct. 16, 1912; *c.* Paul La Rose. B.S., Rutgers Coll., 1912.

Merrill, Lucius Herbert, prof. biol. and agrl. chem., Univ. Me., Orono, Me.

Asst. dept. lithology and physical geol., U. S. Nat. Museum, 1885–6; chem., Me. Exp. Sta., 1886–1908; instr. biol. chem., Univ. Me., 1897–8; prof., 1898–1906; prof. biol. and agrl. chem., 1907—. *b.* Auburn, Me., Oct. 1, 1857; *s.* Lucius and Anne Elizabeth (Jones) M.; *m.* Lydia Maria Buffum, June 24, 1893; 2d, Annie Clifford Moore, June 15, 1910. B.S., Univ. Me., 1883; Sc.D., 1908. Sigma Chi; Alpha Zeta; Phi Kappa Phi.

Merrill, Melvin Clarence, hort., Utah Agr. Coll., Logan, Utah.

Dir. dept. agr., Ida. Tech. Inst., Pocatello, 1915–7; present position, 1917—. Traveled around world, 1906–10; agrl. insp. and supt. Exp. Sta. in Philippines. *b.* Richmond, Utah, Apr. 6, 1884; *s.* Marriner Wood and Maria Loenza (Kingsbury) M.; reared on farm; *m.* Amy Lyman, Sept. 9, 1914. B.S., Utah Agr. Coll., 1905; S.M., Univ. Chicago, 1912; A.M., Harvard Univ., 1913; Ph.D., Washington Univ., 1915. Sigma Xi.

Merrill, Sewall Egbert, co. agrl. agt., Las Vegas, Nev.

Asst. hort., N. Mex. A.&M. Coll., 1911–2; co. hort. insp., San Diego Co., Calif., 1912–3; instr. agr., Escondido high-sch., Calif., 1912–3; head. agrl. dept., Inglewood Union high-sch., Calif., 1913–6; agt. Clark Co., Nev., 1917—. *b.* Davenport, Ia., Aug. 27, 1890; *s.* Warren A. and Eunice (Hall) M.; reared on farm; *m.* Iva Claire Buell, Aug. 27, 1912; *c.* Egbert M., Theodore W. B.S.A., N. Mex. A.&M. Coll., 1911.

Merry, H. Seymour, agt. in dairying and cheese specialist, Va. Poly. Inst., Blacksburg, Va.

b. Verona, N. Y., Mar. 8, 1881; *s.* Gottlieb and Sarah J. (McGann) M.; reared on farm; *m.* Grace B. Taber, Mar. 21, 1907; *c.* Helena A., Esther M. Special student, Cornell Univ., 1905–7.

Mervine, Ernest Muchmore, assoc. prof. agrl. engin., Ia. State Coll., Ames, Ia.

b. Milton, Pa., Mar. 30, 1887; *s.* Chas. S. and Nellie K. (Muchmore) M.; reared on farm; *m.* Eva F. Martyn, Jul. 23, 1913. M.E., Lehigh Univ., 1909.

Metcalf, Woodbridge, asst. prof. for., Univ. Calif., Berkeley, Calif.

Present position, 1914—. *b.* Grosse Pointe, Mich., June 23, 1888; *s.* Chas. Horton and Mattie Kitchell (Woodbridge) M.; reared in city; *m.* Norah Clements, Sept. 26, 1914; *c.* Beatrice Marian. A.B., Univ. Mich., 1911; M.S.F., 1912. Sigma Xi; Phi Gamma Delta.

Metzger, Grover E., co. agrl. agt., Goshen, Ind.

b. Leesburg, Ind., June 7, 1888; *s.* Wm. and Addie (Wilkinson) M.; reared on farm; *m.* Hazel Rarrick, Mar. 7, 1916; *c.* Robt. Earl. B.S.A., Purdue Univ., 1914.

Metzger, Jacob Elry, agron., Md. Exp. Sta., College Park, Md.

Princ. elementary schs., Pa., 1902–6; teach. agr., high-sch., Minn., 1911–3; prof. agrl. educ. and dir .summer sch. for teachers, Md. State Coll., 1914–7; superv. agrl. instr., Md. State Dept. Educ., 1915–7; present position, 1917—. *b.* New Enterprise, Pa., Jul. 30, 1882; *s.* Jacob B. and Kathryn (Dilling) M.; reared on farm; *m.* Jennie Reba Butts, May, 1912. B.S., Penn. State Coll., 1911. Sigma Phi Sigma.

Meyer, Arthur John, dir. agrl. ext., Univ. Mo., Columbia, Mo.

Asst. agron., Univ. Wis., 1902–4; special agt. an. husb., Colo. Agr. Coll., 1904–5; asst. to dean and dir., Coll. of Agr., Univ. Mo., 1911–4; present position, 1914—. First pres. Wis. Exp. Assoc. Farmer, 1907–11. *Assoc. ed.*, Wisconsin Agriculturist, 1906–7. *b.* near Milwaukee, Wis., June 24, 1878; *s.* John and Sophia M.; *m.* Illma Margaret Rohr, Sept. 4, 1911; *c.* Donald, John. B.S.A., Univ. Mo., 1915. Alpha Zeta; Gamma Sigma Delta.

Meyer, Martin H., manag. in chg. Chr. Hansen's Lab., Inc., Milwaukee, Wis.

Instr. dairying, Univ. Wis., 1902–7. Sec.-treas. Nat. Creamery Buttermakers' Assoc. *Auth.:* Modern Buttermaking and Dairy Arithmetic, 1910; Dairy Guide, 1913. *b.* Cedarburg, Wis., Sept. 24, 1869; *s.* Henry and Louise (Wiepking) M.; reared on farm; *m.* Nora M. Ryan, June 1902; *c.* John M. Grad. short-course agr., Univ. Wis., 1897; dairy course, 1902.

Meyers, P. T., co. agrl. agt., Gillette, Wyo.

Prof. agr., high-sch., Stromsburg, Neb., 1914–5; asst. and instr. agron., Univ. Wyo., 1915–7; agt. Campbell Co., Wyo., 1917—. With Tank Corps, U.S. Army, 1918—. *b.* Hendley, Neb., Jan. 12, 1891; *s.* Philip and Ida (Johnson) M.; reared on farm. B.S.A., Univ. Neb., 1914.

Middleton, Morrice Smith, provincial hort. and insp. fruit pests, Victoria, B. C.

Asst. provincial hort., 1909–17; hort. and insp. fruit pests, 1917—. *b.* Aberdeenshire, Scotland, May 24, 1883; *s.* Wm. and Catherine (Smith) M.; reared on farm. B.S.A., Ont. Agr. Coll., 1909.

Milam, Ava Bertha, dean Sch. Home Econ., Ore. Agr. Coll., Corvallis, Ore.

Teach. public schs., Atlanta, Mo., 1903–4; Blees Military Acad., Macon, 1904–7; teach. summer sch., N. Ill. State Normal Sch., summer 1911; Ia. State Coll., 1911; present position, 1911—. Dir. home econ. for Ore., Fed. Food Administration. *Auth.:* Camp Cookery, 1917. *b.* Macon, Mo., Nov. 27, 1884; *d.* Ancil and Mary Louise (McGinnis) M.; reared on farm. Ph.B., Univ. Chicago, 1910; A.M., 1911.

Miles, Warren Ensign, teach. agr., Burnt Hills, N. Y.

Teach. agr., high-sch., Walton, N. Y., 1913–6; Burnt Hills, 1917—. *b.* Erieville, N. Y., Oct. 8, 1890; *s.* Wellington and Mary (Ensign) M.; reared in village; *m.* Myrtle E. Richards, Sept. 28, 1916. Grad. Cortland Normal Sch., 1913.

Milham, Clinton Pomeroy, co. agrl. agt., Tawas City, Mich.

Seed corn specialist, States Relations Serv., 1917. *b.* Kalamazoo, Mich., Jan. 20, 1893; *s.* Robt. E. and Clemana (Pomeroy) M.; reared on farm. Student Mich. Agr. Coll., 2 yrs.

Millar, Charles Ernest, assoc. prof. soils, Mich. Agr. Coll., E. Lansing, Mich.

Grad. asst. chem., Univ. Ill., 1909–10; asst. chem., Kans. State Agr. Coll., 1910–1; asst. soil chem., 1911–3; asst. soils, 1913–5; asst. prof. soils, Mich. Agr. Coll., 1915–8; assoc. prof., 1918—. *b.* Coles Co., Ill., June 23, 1885; *s.* Adam and Fannie B. (Knowles) M.; reared in country; *m.* Lucile E. Kays, June, 1912; *c.* Margaret. B.S., Univ. Ill., 1909; M.S., 1911; B.S. in Agr., Kans. State Agr. Coll., 1915. Phi Lambda Upsilon; Alpha Zeta.

Miller, Charles C., beekeeper and writer, Marengo, Ill.

Pres. Nat. Beekeepers' Union; pres. Northern Ill. Hort. Soc. *Auth.:* A Book — By P. Benson, Sr., 1874; A Year Among the Bees, 1886; Forty Years Among the Bees, 1902; Fifty Years Among the Bees, 1911. *Assoc. ed.,* American Bee Journal, 1894—; dept. ed., Gleanings in Bee Culture, 1890—. *b.* Ligonier, Pa., June 10, 1831; *s.* Johnson and Phebe (Roadman) M.; reared in village; *m.* Mrs. H. M. White, Aug. 12, 1857 (d. 1880); 2d, Sidney J. Wilson, Nov. 15, 1881; *c.* Chas. Clinton. A.B., Union Coll., 1853; M.D., Univ. Mich., 1856. Phi Beta Kappa.

Miller, Edward Andrew, agrst. and field agt., States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Instr., Ala. Poly. Inst., 1900–1; prof. agr., 7th Distr. Agr. Sch., Ala., 1901–5; pres. 9th Distr. Agr. Sch., 1905–11; pres. 7th Distr. Agr. Sch., 1911–3; specialist in agrl. educ., U. S. Dept. Agr., 1913–7; agrst. and field agt., 1917—. *Auth.:* Elementary Vocational Agriculture for Maryland Schools, 1915; Elementary Agriculture for Virginia Schools, 1917. *b.* Albertville, Ala., Feb. 2, 1878; *s.* Thos. J. and Alpha B. (Ray) M.; reared on farm; *m.* Jessie B. Sims, Aug. 27, 1905; *c.* Grace Marjorie, Martha Ruth, Edward A. Jr. B.S., Ala. Poly. Inst., 1900; M.S., 1903.

Miller, Francis Garner, prof. for. and dean Sch. For., Univ. Ida., Moscow, Ida.

Prof. for., Univ. Neb., 1903–7; prof. for. and dean Coll. For., Univ. Wash., 1907–12; prof. for. and head dept., Wash. State Coll., 1915–7; present position, 1917—. With U. S. For. Serv., summers, 1901–12. Mem. Wash. State Conservation Comn., 1908–9; Wash. State For. Legislation Comn., 1910. *b.* Lanark, Ill., June 2, 1866; *s.* Isaiah and Isabelle Jane (Moffett) M.; reared on farm; *m.* Evelyn Depew Miller, Sept. 15, 1906. B.Ph., State Univ. Ia., 1900; B.S.A., Ia. State Coll., 1901; M.F., Yale Univ. For. Sch., 1903. Sigma Xi; Alpha Zeta.

Miller, Henry Paul, farmer, Sunbury, O.

Instr., Ohio State Univ., short-course, 1906–7; prof. agr. and dir. short-courses, Okla. A.&M. Coll., 1908–10; special invest. for Tariff Bd., 1910–1; agt. Portage Co., O., 1913–7. Contributing ed., Ohio Farmer. *b.* Sunbury, O., Nov. 8, 1865; *s.* Wm. D. and Mary (Paul) M.; reared on farm; *m.* Emma Caroline Pierson, May 19, 1891; *c.* Wendell P., Russell Wells, Williard A., Paul Condit. B.S., Antioch Coll., 1889; D.V.M., Ohio State Univ., 1895; M.S., Antioch Coll., 1890.

Miller, James Henry, minister, 443 W. Main St., Lebanon, Tenn.

Adj. prof., Trinity Univ., Tex., 1883–4. Superv. rural work in presbytery. *b.* Independence, Mo., Feb. 3, 1860; *s.* John Henry and Mary (Henderson) M.; reared on farm; *m.* Cornelia Maude Hoyt, Feb. 24, 1891; *c.* James Hum, Charlene Frances. A.B., Trinity Univ., 1883; B.D., Cumberland Univ., 1886; D.D., 1910. Beta Theta Pi.

Miller, Maurice Etheldred, co. agrl. agt., Charleston, Miss.

Agrst. for Marshall Co. Agrl. High-Sch., Lamar, Miss., 1913–6; agrst. for Franklin Co., Meadville, 1916–7; agt. Franklin Co., 1917; agt. Tallahatchie Co., 1918—. *b.* Holly Springs, Miss., Apr. 13, 1893; *s.* Maurice M. and Sallie (McAuley) M.; reared on farm. B.Sc., Miss. A.&M. Coll., 1913.

Miller, Merritt Finley, prof. soils, Univ. Mo., Columbia, Mo.

With Bur. Soils, U. S. Dept. Agr.,

1901–2; agron., Ohio State Univ., 1902–4; prof. agron., Univ. Mo., 1904–14; prof. soils, 1914—. Traveled and studied in Europe, 1910–1. *b.* Grove City, O., Jul. 7, 1875; *s.* E. Ed. and Eliza A. (Demorest) M.; reared on farm; *m.* Alice G. Thompson, Dec., 1902; 2d, Grace Ernst, Dec., 1914. B.S.A., Ohio State Univ., 1900; M.S.A., Cornell Univ., 1901. Sigma Xi; Alpha Zeta.

Miller, Paul E., supt. West Central Sch. and Sta., Univ. Minn., Morris, Minn.

b. Cedar Rapids. Ia., Oct. 30, 1889; *s.* J. K. and Ida E. (Bluebaugh) M.; *m.* Ada Margaret Jones, June 23, 1914; *c.* John B. B.S.A., Ia. State Coll., 1911. Phi Sigma Kappa; Delta Sigma Rho; Gamma Sigma Delta.

Miller, Pearl Cherry, assoc. prof. home econ., N. Mex. A. & M. Coll., State College, N. Mex.

Present position, 1910—. Pres. Home Econ. Assoc. of N. Mex. *b.* Coulterville, Ill.; *d.* Robt. James and Margaret Anna (Wilson) M.; reared in city. B.S., N. Mex. A. & M. Coll., 1904; grad. Drexel Inst., Philadelphia, 1906.

Miller, Wilhelm, lands. arch., 203 W. Euclid Ave., Detroit, Mich.

Assoc. ed., Cyclo. Am. Hort., 1897–1901; manag. and hort. ed., Country Life in America, 1901–12; ed. Garden Magazine, 1905–12; asst. prof. lands. hort. and head div. lands. ext., Univ. Ill., 1912–6. Traveled in U. S. and England to study and describe estates and city planning. *Auth.:* How to Make a Flower Garden, 1903; What England can Teach us About Gardening, 1911; The Illinois Way of Beautifying the Farm, 1913; The Prairie Spirit in Landscape Gardening, 1916. *b.* Duane, Va., Nov. 14, 1869; *s.* Albert and Olive (Tyler) M.; reared in city; *m.* Mary Farrand Rogers, June 8, 1899; *c.* Ruth Rogers, Farrand Rogers. A.B., Univ. Mich., 1892; A.M., Cornell Univ., 1897; Ph.D., 1899. Phi Beta Kappa; Sigma Xi; Psi Upsilon.

Milliman, Thomas E., co. agrl. agt., Middletown, N. Y.

Farm manag., L. I., 1912–5; agt. Orange Co., 1915—. *b.* Avon, N. Y., Mar. 4, 1890; *s.* Geo. R. and Lillian (Noble) M.; reared on farm; *m.* Amy Treman, June 9, 1917. Cornell Univ., 1912. Alpha Gamma Rho.

Miner, Aaron W., co. agrl. agt., Canton, Ill.

b. McDonough Co., Ill., Apr. 13, 1882; *s.* Timothy G. and Prudence H. (Russell) M.; reared on farm; *m.* Inez L. McClenahan, Aug. 17, 1910; *c.* Timothy G., Wendell Edward. B.S., Univ. Ill., 1904. Alpha Zeta.

Miner, J. Howard, co. agrl. agt., Stronghurst, Ill.

Stock farmer, 1907–8. *b.* Adair, Ill., Apr. 22, 1884; *s.* Timothy G. and Prudence H. (Russell) M.; reared on farm; *m.* Edna Pearl Barnhart, Nov. 25, 1908; *c.* Harold Eugene, Harvey Russell, Sibyl Irene. B.S., Univ. Ill., 1907.

Minkler, Frederick C., prof. an. husb., Rutgers Coll., New Brunswick, N. J.

Present position, 1906—; dir. short-courses in agr., 1912—. Sec. and exec. officer, State Live-Stock Comn., 1908—; mem. State Bd. Agr., 1908—; mem. Stallion Exec. Bd., 1908—. Traveled Great Britain and Europe, 1909–10, investigating live-stock. Live-stock ed., Nev. Evening Journal. *b.* Nevada, Ia., Nov. 11., 1881; *s.* Chas. M. and Ella (White) M.; reared on farm; *m.* Helen R. Andrews, Oct. 11, 1910; *c.* Rhoda. B.S.A., Ia. State Coll., 1905.

Mitchell, Robert Vincens, prof. poultry husb., Del. Coll., Newark, Del.

Poultryman, Penn. State Coll., 1908–9; asst. poultry husb., 1911–2; asst. poultry husb., Univ. Mo., 1912–3; prof. poultry husb., N. H. A.& M. Coll., 1913–7; present position, 1917—. Sec.-treas. N. H. Poultry Growers' Assoc. *b.* Mahaffey, Pa., Jul. 23, 1884; *s.* David Thos. and Margaret A. (Byers) M.; reared on farm; *m.* Charlotte Calvin Cochel, Jul. 29, 1914. B.S., Univ. Mo., 1913.

Mohler, Jacob Christian, sec. Kans. State Bd. Agr., Topeka, Kans.

With Kans. State Bd. Agr. since 1893. Chm. Kans. State Ent. Comn.; sec. Kans. Flood & Water Congress; sec. Kans. Council of Defense; mem. State Adv. Bd., U. S. Fuel Administration; treas. State Branch Am. Anti-Saloon League; pres. Capital Live-Stock Insurance Co. Traveled in Europe. *b.* Osborne Co., Kans., Apr. 7, 1875; *s.* Martin and

Lucina (Hoover) M.; reared on farm; *m.* Ruth McClintock, Oct. 30, 1901; *c.* John McClintock, James Calhoun, Marcia. Educ. Washburn Coll., LL.D., 1914. Gamma Sigma Delta.

Mohler, John Robbins, chief Bur. An. Ind., U. S. Dept. Agr., Washington, D. C.

Practicing vet., 1896–7; asst. insp., Bur. An. Ind., 1897–9; asst. path., 1899–1901; zool., 1901–2; chief path. div., 1902–14; asst. chief of Bur., 1914–7; chief, 1917—. Sec. Inter. Tuberculosis Congress, Vet. Sect., 1908; vice-pres. U. S. Live-Stock Sanitary Assoc., 1909–10; pres. Am. Vet. Med. Assoc., 1912–3; vice-pres. Inter. Vet. Congress, 1914; pres. Vet. Examining Bd., D. of C., 1914–7. *Translator:* Ostertag's Handbook of Meat Inspection, 1904; Edelmann's Meat Hygiene, 1908; Hutyra and Marck's Special Pathology and Therapeutics of Domestic Animals, 1911; Ernst's Milk Hygiene, 1914. *b.* Philadelphia, Pa., May 9, 1875; *s.* Wm. and Harriet Robbins (Hart) M.; reared on farm and in city; *m.* Clara Moffett Clarke, Dec. 23, 1897; *c.* Wm. Melvin, Miriam Clarke. V.M.D., Univ. Pa., 1896; Med. Dept., Marquette Univ., 1897–9. Alpha Psi.

Moist, Albert Reynolds, rice farmer, Gueydan, La.

Field manag., Buffalo Creek Farm, Arlington Heights, Ill., 1909; farm supt., Waddington Farm, Elm Grove, W. Va., 1910; general manag., Sheffield Farms, Glendale, O., 1910–4; live-stock agt., U. S. Dept. Agr. and La. State Univ., 1914–6. *b.* Clayton, O., Dec. 7, 1882; *s.* John F. and Sarah E. (Ralston) M.; reared on farm; *m.* Nov. 1917. B.S., Ohio State Univ., 1908. Delta Theta Sigma.

Moles, Hunter Stephen, co. agrl. agt., Aztec, N. Mex.

b. Canon City, Colo., June 17, 1891; *s.* O. S. and Mary L. (Hunter) M.; *m.* Pauline S. Warner, Aug. 7, 1915; *c.* Robt. Hunter. B.S., Colo. Agr. Coll., 1913. Alpha Zeta.

Monahan, Arthur Coleman, specialist rural sch. administration, Bur. Educ., Washington, D. C.

Asst. princ. high-sch., Amherst, Mass., 4 yrs.; princ. high-sch., Montague, 2 yrs.; Turner Falls, 3 yrs.; specialist in rural sch. administration and agrl. educ., U. S. Bur. Educ., 8 yrs. Major Sanitary Corps, Nat. Army, on Re-education of Disabled Soldiers for Surgeon Generals Off., 1918—. *b.* Framingham, Mass., Mar. 22, 1876; *s.* Michael and Johanna (Coleman) M.; reared on farm; *m.* Mary Emma Cody, June 30, 1904; *c.* Esther, Paul, Wm., John. B.S., Mass. Agr. Coll., 1900.

Monohon, Paul Wheeler, asst. co. agt. leader, Univ. Me., Orono, Me.

Asst. to dir., Me. Agr. Ext. Serv., 1914–5; present position, 1915—. *b.* Biddeford, Me., Aug. 1, 1890; *s.* Geo. and Sarah (Patten) M.; reared on farm. B.S., Univ. Me., 1914. Phi Kappa Sigma.

Monroe, Charley Fraser, asst. co. agt. leader, Wash. State Coll., Pullman, Wash.

Grad. student and asst. an. husb., Wash. State Coll., 1911; instr. an. husb., 1911–2; asst. prof., 1912–4; assoc. prof., 1914–5; co. agt., Montesano, 1915–8; present position, 1918—. *b.* Butler Co., Ia., Nov. 18, 1884; *s.* John and Clara (Glenn) M.; reared on farm; *m.* Gladys Grubbe, June 16, 1914. B.S.A., Ia. State Coll., 1908. Alpha Tau Omega.

Montgomery, Cephas Abram, co. agrl. agt., Manassas, Va.

b. Wirtz, Va., June 1, 1889; *s.* Chas. Wm. and Elizabeth (Flora) M.; reared on farm. A.B., Va. Christian Coll., 1914; B.S.A., Va. Poly. Inst., 1916.

Montgomery, Edward Gerrard, prof. farm crops, Cornell Univ., Ithaca, N. Y.

Prof. expl. agron., Univ. Neb., 1906–11; present position, 1912—. *Auth.:* (with T. L. Lyon) Examining and Grading Grains, 1906; Corn Crops, 1912; Productive Farm Crops, 1916. *b.* Milan, Mo., May 10, 1878; *s.* R. S. and Elizabeth (Mooney) M.; *m.* Ruth Bell, June 18, 1898. B.S., Univ. Neb., 1906; A.M., 1909. Sigma Xi; Alpha Zeta.

Montgomery, Joseph Shaw, supt. live-stock, Falls Nursery Co., Owatonna, Minn.

Agt., Bur. An. Ind., U. S. Dept. Agr., 1907–8; asst. an. husb., Estacron Cent. Agronomica de Cuba, 1908–9; asst., prof. an. husb., Univ. Minn., 1911–8; assoc. prof., 1918. Vice-pres. Nat. Assoc. of Stallion Reg. Bds.; exec. officer Minn. Stallion Reg. Bd. *b.* Chase Co., Kans., Dec. 1, 1885; *s.* P. D. and Sarah

J. (Brooks) M.; reared on farm; *m.* Grace E. Lenszler, Sept. 20, 1911; *c.* Margaret, Robt., Joseph. B.S.A., Kans. State Agr. Coll., 1907.

Montgomery, Lewis Marion, prof. hort., Ohio State Univ., Columbus, O.

Asst. prof. hort. and bot., Okla. A.&M. Coll., 1908–9; asst. prof. hort., Ohio State Univ., 1910–4; prof., 1914—. Sec. O. Veg. Growers' Assoc., 1916—; sec. Columbus Hort. Soc., 1913–7. *b.* Assumption, Ill., Apr. 9, 1877; *s.* Wm. A. and Mary Ann (McKinnie) M.; reared on farm; *m.* Anna L. Thayer, June 16, 1908; *c.* Marietta Ruth. B.S., Colo. Agr. Coll., 1907; M.S., Ohio State Univ., 1910.

Montillon, Eugene Davis, asst. prof. lands. design, Cornell Univ., Ithaca, N. Y.

Instr. lands. design, Cornell Univ., 1912–7; asst. prof., 1917—. *b.* Buffalo, N. Y., Oct. 18, 1883; *s.* Geo. Frederick and Abbie M. (Davis) M.; reared in city and country; *m.* Clara Muriel Briggs, June 16, 1917. B.Arch., Cornell Univ., 1912.

Moody, Clarence Hillman, co. agrl agt., Huntingdon, Tenn.

b. Springville, Tenn., Mar. 15, 1893; *s.* J. H. Wesley and Mary E. (Brumager) M.; reared on farm. B.S.A., Univ. Tenn., 1917. Alpha Zeta; Phi Kappa Phi.

Mooers, Charles Ansel, chem. and agron., Tenn. Exp. Sta., Knoxville, Tenn.

Asst. chem., Tenn. Exp. Sta., 1893–8; chem., N. La. Sta., 1898–9; chem., Tenn. Exp. Sta., 1899–1905; asst. prof. agrl. chem. and agron. and chem. Exp. Sta., Univ. Tenn., 1905–7; prof., 1907–11; present position, 1911—. *Asst. ed.*, Journal of Am. Soc. of Agron.; consulting ed. Soil Science. *b.* Solon, Me., Dec. 8, 1869; *s.* James H. and Ellen C. (Tobey) M.; reared on farm and in town; *m.* Gertrude Broome, June 23, 1896; *c.* Geo. Ansel. B.S., Univ. Tenn., 1893.

Moore, James Garfield, prof. hort., Univ. Wis., Madison, Wis.

Instr. hort., Univ. Wis., 1905–7; asst. prof., 1907–10; assoc. prof., 1910–6; prof., 1916—. *Revisor:* (with L. R. Jones) Goff's Principles of Plant Culture, 1916. *b.* Shepherd, Mich., Oct. 22, 1881; *s.* James W. and Mary E. (McCauley) M.; reared on farm; *m.* M. Josephine Hibbard, Oct. 15, 1910; *c.* Elizabeth Adelle, Josephine Louise. B.S., Mich. Agr. Coll., 1903; M.S., 1905; M. Hort., 1909. Alpha Zeta.

Moore, L. R., co. agrl. agt., Perry, Fla.

Teach. public schs., 1901–12. Sec. Taylor Co. Live-Stock Assoc. *b.* Ala., Oct. 6, 1881; *s.* J. R. and Sadie (Herring) M.; reared in town; *m.* Mary Pitman, 1902; *c.* Howard.

Moore, Merton, co. agrl. agt., Shawano, Wis.

Manag. truck farm, 1913—; asst. manag., A. Sherman Lumber Co. farm, N. Y., 1914—; herdsman, 1915—; prof. sci., Shawano high-sch., 1916; co. agt., 1917—. Sec. Shawano Co. Potato Growers' Assoc., 1917; sec. Wis. Order Exp. Sta., Shawano Co., 1918. *b.* Potsdam, N. Y., May 28, 1892; *c.* Frank W. and Jessie C. (Crane) M.; reared in town. B.S., Univ. Wis., 1916. Delta Upsilon; Alpha Zeta.

Moore, Otis Henry, minister, Hubbardston, Mass.

Sec. Hartford Co. League, 1917–8. Special attention to rural problems. *b.* Sibley, Ia., Aug. 27, 1881; *s.* Wallace M. and Mary H. (Tipple) M.; reared in village; *m.* Alice Rigby, June 20, 1911; *c.* Alice Fellows, Mary Ellen, Richard Wallace. A.B., Cornell Coll., 1905; student Columbia Univ., 1906–7; Boston Univ. Sch. Theol., 3 yrs.

Moore, Ransom Asa, prof. agron., Univ. Wis., Madison, Wis.

Teach. rural schs., 1882–8; princ. graded schs., 1888–90; co. supt. schs., 1890–5; from asst. to prof. agron., Univ. Wis., 1895—. Sec. Wis. Exp. Assoc., 1901—. *b.* Kewaunee, Wis., June 5, 1861; *s.* Seth and Johanna (Werner) M.; reared on farm; *m.* Nettie Rogers, Jul. 17, 1889; *c.* Geo. E., Roger E. Alpha Zeta.

Moore, Veranus Alva, dir. and dean, N. Y. State Vet. Coll., Cornell Univ., Ithaca, N. Y.

With Bur. An. Ind., U. S. Dept. Agr., 1887–96; prof. comparative path., bact. and meat insp., Cornell Univ., 1896—; dean and dir., State Vet. Coll., 1908—.

Mem. Inter. Tuberculosis Comn.; State Tuberculosis Comn. of N. Y. Del. Inter. Vet. Congress, Budapest, 1905. *Auth.:* Laboratory Directions for Beginners in Bacteriology, 1900; Principles of Microbiology, 1912; Bovine Tuberculosis and Its Control, 1913; Pathology and Differential Diagnosis of Infectious Diseases of Animals, 4th ed., 1916. *b.* Houndsfield, N. Y., Apr. 13, 1859; *s.* Alva and Antoinette Elizabeth (Eastman) M.; reared on farm; *m.* Mary L. Slawson, Jul. 12, 1892; *c.* Erwin V., Mary E., Norman S. B.S., Cornell Univ., 1887; M.D., Columbian (now Geo. Washington) Univ., 1890; V.M.D., Univ. Penn., 1911. Nu Sigma Nu.

Moore, William, assoc. prof. ent., Univ. Minn., University Farm, St. Paul, Minn.

Asst. bot., Cornell Univ., 1909–10; lect. ent. and zool., Sch. Agr., Potchefstrom, S. Africa, 1910–3; present position, 1913—. *Auth.:* South African Insects Injurious to Man and Domesticated Animals, 1912. *b.* Phoenixville, Pa., Jan. 29, 1887; *s.* Joseph and Sarah (Bell) M.; reared in town; *m.* Mary E. Behney, Mar. 11, 1910; *c.* Wm. A., Joseph B., Richard C. A.B., Ursinus Coll., 1907.

Moorhouse, Harold William, dean of commerce and marketing and prof. econ. and marketing, Okla. A.&M. Coll., Stillwater, Okla.

Farmer, Imperial Co., Calif., 1906–13; prof. econ. and marketing, Okla. A.&M. Coll., 1913—; dean commerce and marketing, 1914—. Mem. Calif. Legislature, 1911–3; mem. Okla. State Market Comn., 1917–8. *b.* Breckenridge, Mo., Jan. 19, 1884; *s.* Robt. C. and Alcedena (Pease) M.; reared in town; *m.* Lucile Dillon, Aug. 8, 1917. A.B., Beloit Coll., 1906. Sigma Chi.

Morbeck, George C., assoc. prof. for., Ia. State Coll., Ames, Ia.

Asst. prof. for., Ia. State Coll., 1912–4; assoc. prof., 1914—. Rep. in Ida. Legislature, 1909–11. *b.* Ingalls, Mich., Nov. 8, 1883; *s.* Chas. T. and Constance C. (Anderson) M.; reared in small town; *m.* Mary C. Olson, Aug. 19, 1912; *c.* Dorothy Marion. B.S., Mich. Agr. Coll., 1904; M.F., 1915. Alpha Zeta.

More, Carrol Tallman, specialist in market grades and standards, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

In wholesale fruit and produce business, Denver, Colo., 8 yrs.; with Grand Junction (Colo.) Fruit Growers' Assoc., 6 yrs. *b.* Wayne Co., Pa., May 10, 1881; *s.* Addis Emmet and Eudalia J. (Tallman) M.; reared on farm and in city; *m.* Mary Edithe Gullette, Jul. 2, 1907; *c.* Marjorie D., Carrol K., Dorothy Elaine.

More, Ellsworth Burnette, co. agrl. agt., Marshall, Mich.

b. Franksville, Wis., May 29, 1890; *s.* Leonard and Lina (Emerson) M.; reared on farm. B.S., Mich. Agr. Coll., 1916.

Morgan, Agnes Fay, asst. prof. household sci., Univ. Calif., Berkeley, Calif.

Instr. chem., Univ. Wash., 1910–3; present position, 1915—. *b.* Peoria, Ill., May 4, 1884; *d.* P. J. and Mary (Dooley) Fay; reared in city; *m.* Arthur I. Morgan, May 17, 1908. B.S., Univ. Chicago, 1904; M.S., 1905; Ph.D., 1914. Phi Beta Kappa; Sigma Xi.

Morgan, David Naffziger, supt. San Joaquin Valley Farm Lands Co. and affiliated companies, San Joaquin, Calif.

Instr. agr., Imperial high-sch., 1909–10; head agrl. dept., Stockton high-sch., 1910–1; farming, Imperial Valley, 1911–3; assoc. prof., agr., asst. to dir. and sec. Coll. Agr., 1913–8; acting dean and dir., Nov. and Dec., 1917; present position, 1918—. Sec. State Comn. on Land Colonization and Rural Credits, 1916–7; sec. State Land Settlement Bd. 1917; sec. Imperial Valley Dairymen's Assoc., 1910; Imperial Farmers' Commercial Assoc., 1912; Imperial Co. Live-Stock Assoc., 1911–2. *b.* Nevada City, Calif., Dec. 9, 1886; *s.* David Eddy and Helen Gertrude (Naffziger) M.; reared in rural town; *m.* Georgia Holt Strohmeier, Dec. 18, 1912; *c.* Helen Jane. B.S., Univ. Calif., 1909. Theta Delta Chi; Alpha Zeta.

Morgan, Ezra Leonidas, ext. prof. community organization, Mass. Agr. Coll., Amherst, Mass.

Chm. rural sect., Nat. Community Center Assoc.; exec. sec. Mass. Fed. for Rural Progress. *b.* Bone Gap, Ill., Aug. 22, 1879; *s.* Allen T. and Rosina A. (Smith) M.; reared on farm; *m.* Mary F.

Flint, 1906; *c.* Elizabeth, Esther, Mary. A.B., McKendree Coll., Lebanon, Ill., 1904; A.M., Univ. Wis., 1912.

Morgan, George Walter, supt. N. Mont. Exp. Sta., Havre, Mont.

Forage crop invest., U. S. Dept. Agr., Akron, Colo., 1912; chg. dry-land agr. invests., Huntley, Mont., 1913–5; present position, 1915—. *b.* Jarbalo, Kans., Feb. 10, 1885; *s.* Lyman J. and Jennie E. (Denholm) M.; reared on farm. B.S., Mont. State Coll., 1912.

Morgan, Harcourt Alexander, dean Coll. Agr. and dir. Exp. Sta., prof. zool. and ent., Univ. Tenn., Knoxville, Tenn.

Prof. ent. and hort., La. State Univ., 1889–93; prof. zool. and ent., 1893–4; ent., La. Exp. Sta., 1889–1904; ent. and sec. La. Crop Pest Com., 1904–5; dir. Gulf Biol. Sta., 1899–1905; present position, 1905—. Fellow A. A. A. S. Pres. Assoc. Econ. Ent., 1907. Mem. Am. Comn. for Study Rural Credits and Coop. in Europe, 1913. *b.* Kerrwood, Ont., Aug. 31, 1867 (naturalized 1891); *s.* John and Rebecca (Trueman) M.; reared on farm; *m.* Sara Elizabeth Fay, June 25, 1895; *c.* Edwa Fay, John Elmore. Lucy Shields, Harcourt Alexander. Assoc. Ont. Agr. Coll., 1887; B.S.A., Univ. Toronto, 1889; grad. student, Cornell Univ., 1892, 1898.

Morgan, James Oscar, prof. agron., Tex. A. & M. Coll., College Station, Tex.

Asst. expl. agron., Cornell Univ., 1908–9; prof. agron., Miss. A.&M. Coll., 1909–12; present position, 1912—. *Auth.:* Field Crops for the Cotton-Belt, 1917. *b.* Etowah, N. C., May 8, 1880; *s.* James Wilson and Orrie (Osgood) M.; reared on farm; *m.* Mildred Washington Minor, June 1, 1911; *c.* Lucian Minor, James Oscar Jr. B.Agr., N. C. A.&M. Coll., 1905; M.S.A., Cornell Univ., 1908; Ph.D., 1909. Sigma Xi; Alpha Zeta.

Morgan, Ora Sherman, prof. agr., Columbia Univ., New York City.

Dir. N. Y. State Sch. Agr., Alfred Univ., 1908–12; present position, 1911—. Traveled in Europe, 1910. *b.* Hampshire, Ill., Aug. 11, 1877; *s.* Lyman Delos and Elizabeth Ann (Helmar) M.; reared on farm; *m.* Rose LeVille Huff, Oct. 4, 1908. A.B., Univ. Ill., 1905; M.S.A., Cornell Univ., 1907; Ph.D., 1909. Sigma Xi; Gamma Alpha.

Morman, James Bale, examiner of securities, Fed. Farm Loan Bur., Kensington, Md.

Poultry-breeder and gardener, Md., 1904—. Mem. from Md., Am. Comn. for Study Rural Credits in Europe, 1913. *Auth.:* Principles of Social Progress, 1900; The Principles of Rural Credits, 1915. *b.* Ilfracombe, England, Jul. 7, 1868 (naturalized 1899); *s.* Thos. and Anne (Bale) M.; reared in country; *m.* Harriet Janette Cogswell, Nov. 1, 1897. A.B., Univ. Rochester, 1890; A.M., 1900. Phi Beta Kappa; Delta Upsilon.

Morrey, Charles Bradfield, brof. bact., Ohio State Univ., Columbus, O.

Asst. Latin, Ohio State Univ., 1890–1; asst. Latin and physiology, 1891–2; asst. physiology, 1892–7; asst. prof., 1899–1902; assoc. prof., 1902–3; prof. physiology, Starling Med. Coll., 1899–1904; acting prof. chem., 1896–7; present position, 1904—. Del. to Inter. Congress on Tuberculosis, Washington, 1908. Traveled and studied in Europe, 3 yrs. *Auth.:* Laboratory Exercises in General Bacteriology; Introduction to Bacteriology. *b.* Chesterhill, O., Nov. 5, 1869; *s.* John C. and Mary J. (Wright) M.; reared in small town; *m.* Grace Hamilton Jones, 1898; *c.* Marion, Jessie, Chas. B. Jr. B.A., Ohio State Univ., 1890; M.D., Starling Med. Coll., 1896. Sigma Xi.

Morrill, Austin Winfield, state ent. and consulting ent., Ariz. Exp. Sta., Phoenix, Ariz.

Special field agt., Bur. Ent., U. S. Dept. Agr., 1903–9; cotton insect invests., 1903–6; chg. citrus white fly invests., Fla., 1906–9; present position, 1909—. Fellow A. A. A. S. *b.* Tewksbury, Mass., Sept. 11, 1880; *s.* James and Elvira (Webster) M.; reared on farm; *m.* Florence Hall McCormick, Apr. 29, 1908 (d. 1916); *c.* Austin W. Jr. B.Sc., Mass. Agr. Coll. and Boston Univ., 1900; Ph.D., 1903. Phi Sigma Kappa.

Morrill, Walter Jean, prof. for., and state for., Colo. Agr. Coll., Fort Collins, Colo.

With U. S. For. Serv., chiefly in Colo., 1905–12; prof. for., Univ. Neb., 1912–4; present position, 1914—. Pres. Colo.

For. Assoc., 1916—. *b.* Madison, Me., Apr. 17, 1875; *s.* Cyrus D. and Clara Maria (Flint) M.; reared in small town; *m.* Katharine C. Stone, Sept, 18, 1907. B.S., Univ. Me., 1899; M.F., Yale For. Sch., 1905. Kappa Sigma.

Morris, Oliver S., ed. and writer, 1175 Charles St., St. Paul, Minn.

Ed., Nonpartisan Leader and in editorial chg. Nonpartisan League state newspapers in N. D., S. D., Minn. and Ida. *b.* Chicago, Ill., Apr. 19, 1885; *s.* Llewellyn B. and Etta A. S. (Scott) M.; *m.* Gertrude A. Arnold, 1910; *c.* Roland A., Oliver S. Jr.

Morris, Oscar Matison, prof. hort. and head dept., Wash. State Coll., Pullman, Wash.

Asst. hort., Okla. A.&M. Coll., 1898–1901; prof. hort., 1902–8; prof. bot. and hort., 1909–10; asst. prof. hort., Wash. State Coll., 1910–1; prof., 1911—. *b.* Highland, Kans., June 26, 1874; *s.* S. E. and Clarissa A. (McCulloch) M.; reared on farm; *m.* Leona Jane Hall, Jul. 11, 1901; *c.* Howard V., Wm. E. B.S., Okla. A.&M. Coll., 1896; M.S., Wash. State Coll., 1915. Alpha Zeta.

Morrison, Frank Barron, assoc. prof. an. husb. and asst. dir. Exp. Sta., Univ. Wis., Madison, Wis.

Asst. agrl. chem., Univ. Wis., 1911–2; instr., 1912–4; asst. prof. an. husb., 1914–7; assoc. prof., 1917—; asst. dir. Exp. Sta., 1915—. *Auth.:* (with W. A. Henry) Feeds and Feeding, 15th ed., 1915; Feeds and Feeding, Abridged, 1917. *b.* Ft. Atkinson, Wis., May 19, 1887; *s.* Chas. Irving and Harriet (Barron) M.; reared on farm; *m.* Elsie Rea Bullard, Nov. 24, 1910; *c.* Roger Barron. B.S., Univ. Wis., 1911. Sigma Xi; Alpha Zeta; Phi Lambda Upsilon; Phi Sigma Kappa.

Morrison, George Leo, state co. agt. leader, Univ. Nev., Reno, Nev.

Agron., Exp. Sta., Argentina, 1913–5; agrl. agt., Fremont Co., Ida., 1916; asst. co. agt. leader, Univ. Ida., 1917–8; present position, 1918—. *b.* Franklin, Ida., May 9, 1884; *s.* Joseph and Luey (Henson) M.; reared on farm; *m.* Andrea Holmgren, June 9, 1915; *c.* Ruth. B.S., Utah Agr. Coll., 1911.

Morrison, Guy Edward, ext. specialist in livestock, S. D. State Coll., Brookings, S. D.

b. De Smet, S. D., Feb. 27, 1886; *s.* Edward A. and Jennie A. (Miner) M.; reared in city; *m.* Iva May Evans, Dec. 26, 1914; *c.* Robt. E. B.S., S. D. State Coll., 1913.

Morrow, Clarence Austin, asst. prof. agrl. biochem., Univ. Minn., University Farm, St. Paul, Minn.

Asst. chem., Oberlin Coll., 1906–8; head dept. chem. and physics, Doane Coll., 1909–10; Harrison scholar in chem., Univ. Penn., 1910–1; prof. and head dept. chem., Neb. Wesleyan Univ., 1911–7; grad. student and asst. soils, Univ. Minn., 1914–5; present position, 1917—. *b.* near Morrow, O., Feb. 11, 1881; *s.* Morris and Alice C. (Austin) M.; reared on farm. B.Sc., Ohio Wesleyan Univ., 1906; A.M., Oberlin Coll., 1909; Ph.D., Univ. Minn., 1918. Sigma Xi.

Morrow, James Everett, supt. U. S. Plant Introduction Field Sta., Brooksville, Fla.

Hort., Butte Co., Calif., 9 yrs.; gardener, Plant Introduction Field Sta., Chico, Calif., 5 yrs. *b.* Meridian, Calif., Oct. 27, 1877; *s.* B. F. and Mary J. (Compton) M.; reared on farm; *m.* Grace Louise Jesser, Oct. 27, 1901. Grad. Healds Coll., San Francisco, 1900.

Morse, Fred Winslow, research chem., Mass. Exp. Sta., Amherst, Mass.

Asst. chem., Mass. Exp. Sta., 1887–8; chem. and vice-dir., N. H. Exp. Sta., 1888–1909; instr. to prof. organic chem., N. H. A.&M. Coll., 1889–1909; chem., Mass. Exp. Sta., 1910—; acting dir., 1912–3, 1918. Fellow A. A. A. S. *b.* Berlin, Mass., Dec. 6, 1865; *s.* Winslow B. and Eugenia S. (Carter) M.; reared on farm; *m.* Lelia L. White, Oct. 29, 1891; *c.* Fred Winslow, Ellen Hastings. B.S., Worcester Poly. Inst., 1887; M. S., 1900. Phi Kappa Phi.

Morse, Harry Clarence, co. agrl. agt., Gloversville, N. Y.

Asst. agt. Chautauqua Co., N. Y., 1915; asst. agt. Oneida Co., 1916–8; agt. Fulton Co., 1918—. *b.* Sheridan, N. Y., Dec. 20, 1888; *s.* Geo. E. and Nettie E. (Stebbins) M.; reared on farm; *m.* Emma E. Mandeville, June 8, 1916; *c.* Sanford M. B.S., Cornell Univ., 1915.

Morse, Hermann N., minister, asst. church and country-life work, Presbyterian Bd. of Home Missions, 156 Fifth Ave., New York City.

Teach. rural sociol. or religious educ., summer schs., Ia. State Coll., 1914, Wash. State Coll., and Univ. Ore., 1915, Univ. Neb., 1916, Auburn Theol. Sem., 1916–8, Md. State Coll., 1917; lect. on country church, Union Theol. Sem., 1917—; asst. rural educ., Teachers Coll., Columbia Univ., 1917—. *b.* Ludington, Mich., Sept. 29, 1887; *s.* Hermann N. and Sarah E. (Smith) M.; reared in small town; *m.* Florence Vorpe. June 28, 1913; *c.* Sarah Frances, Warren Wilson. A.B., Alma Coll., 1908; Union Theol. Sem., 1911.

Morse, John Jacob Frederick, asst. in marketing fruits and vegetables, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Citrus fruit-grower, Hemet, Calif., 1914–7; instr. agr., Hemet high-sch., 1915; head dept. agr. and hort., Hemet Union high-sch. and Junior Coll., 1915–7. *b.* San Francisco, Calif., Jul. 17, 1892; *s.* John F. and Alice (Howell) M.; reared on farm and in city. B.S., Ore. Agr. Coll., 1914. Kappa Sigma; Gamma Sigma Delta.

Morse, Stanley Fletcher, consulting agrl. eng., Hibernia Bldg., New Orleans, La.

Lab. asst. chem., Bussey Inst., 1905–6; asst. field mgr., cotton plantation, Tlahualilo, Mex., 1906–7; farming, Mass., Me. and N. Y., 1907–8; asst. manag. ed., The Country Gentleman, 1908–10; agrl. expert, Nat. Railways of Mex. and Mex. Express Co., 1910–1; farmer and consulting agrst., private practice in New England, Mid. West and South, 1911–3; prof. agr., Univ. Ariz., 1913–4; dir. agrl. ext., 1914–6; state leader co. agts., U. S. Dept. Agr., 1915–6; consulting agrl. engineer in South, 1916—. Sec. Ariz. Farm Improvement Assoc., 1914–6. Contributing agrl. ed., Cut-Over Lands, 1918—. *b.* Watertown, Mass., Sept. 15, 1884; *s.* Harry Fletcher and Emma (Bean) M.; reared in town; *m.* Elizabeth Fenn Leonard, June 1, 1910; *c.* S. F. Jr. B.A.S., Harvard Univ., 1906.

Morse, Warner Jackson, plant path., Me. Exp. Sta., Orono, Me.

Teach. nat. sci., Montpelier Sem., 1899–1901; instr. bot., Univ. Vt., 1901–5; asst. prof. bact., 1905–6; asst. bot., Vt Exp. Sta., 1901–6; present position, 1906—. Fellow A. A. A. S. *b.* Waterbury, Vt., Oct. 30, 1872; *s.* Daniel Jackson and Jane (McKee) M.; reared on farm; *m.* Mary Almira Leland, Jul. 6, 1898; *c.* Ruth Esther. B.S., Univ. Vt., 1898; M.S., 1903; Ph.D., Univ. Wis., 1912. Sigma Xi; Phi Kappa Phi; Alpha Zeta; Kappa Sigma.

Mortensen, Martin, prof. dairying, Ia. State Coll., Ames, Ia.

Supt. manufacturing, Hanfora Hazelwood Creamery Co., Sioux City, Ia., 5 yrs.; manag., Hazelwood Creamery Co., Portland, Ore., 5 yrs.; assoc. prof. dairying, Ia. State Coll., 1909–10; prof., 1910—. Studied dairying in great Britain and Denmark as rep. U. S. Dept. Agr., 1900; sent by Ia. State Coll. to Great Britain, Holland, Denmark, 1914. Mem. The Danish Royal Agr. Soc. *b.* Denmark, May 29, 1872 (naturalized 1900); *s.* Reder Chr. and Juliana Marie (Larsen) M.; reared on farm; *m.* Emelia Christensen, Nov. 10, 1900; *c.* Marie, Edna. B.S.A., Ia. State Coll., 1909. Phi Kappa Phi; Phi Lambda Upsilon; Gamma Sigma Delta.

Morton, George Edwin, prof. an. husb. and head dept., Colo. Agr. Coll., Fort Collins, Colo.

Asst. an. husb., Univ. Wyo., 1904–7; prof. an. husb., Colo. Agr. Coll., 1907–9; head dept., 1909—. State dairy comnr. for Colo., 1913—. Official judge for Holstein-Friesian Assoc. of Am.; Am. Shorthorn Breeders' Assoc.; Am. Jersey Cattle Club. *b.* Johnstown, Wis., June 17, 1879; *s.* James and Janet Ann (McFarlane) M.; reared on farm; *m.* E. Maude Hyslop, Jul. 5, 1905; *c.* Geo. E., Logan D., Gordon, Craig, E. Maude. B.L., Milton Coll., Wis., 1899; B.S., Colo. Agr. Coll., 1904; M.L., Milton Coll., 1904. Alpha Zeta.

Moses, Judson Eckford, state pig club agt., N. C. A.&M. Coll., W. Raleigh, N. C.

Teach. rural schs., Ala., 1909–11; prof. an. husb., State Agr. Sch., Magnolia, Ark., 1913–5; co. agrl. agt., Brewton, Ala., 1915–7. *b.* Hamilton, Ala., Feb. 8, 1888; *s.* Wm. Benjamin and Sarah Elizabeth (Armstrong) M.; reared on farm; *m.* Lucile Carter, Sept. 12, 1917. B.S.A., Ala. Poly. Inst., 1913.

Mosher, Martin Luther, co. agrl. agt., Eureka, Ill.

Instr. farm crops, Ia. State Coll., 1905; ext. lect., 1906–12, except 1½ yrs. in Mex. as corn specialist; agrl. agt., Clinton Co., Ia., 1912–5; agrl. agt., Woodford Co., Ill., 1916—. *b.* W. Liberty, Ia., Apr. 12, 1882; *s.* L. O. and Lidorana (White) M.; reared on farm; *m.* Elba Forman, Dec., 1908; *c.* Arthur, Luther, Ruth, Vora. B.S.A., Ia. State Coll., 1905; M.S., 1915.

Mosier, Jeremiah George, prof. soil physics, Univ. Ill., Urbana, Ill.

Asst. geology, Univ. Ill., 1894–7; farming, 1898–9; teach. sci., high-sch., Champaign, 1899–1902; instr. soil physics, Univ. Ill., 1902–5; asst. prof., 1905–11; prof., 1911—. *Auth.:* Laboratory Manual of Soil Physics, 1911; Soil Physics and Management, 1917; Soils and Crops, 1918; Climate of Illinois, 1918. *b.* Pike Co., O., Jan. 8, 1862; *s.* David and Amanda (Brill) M.; reared on farm; *m.* Lydia C. Miller, June 22, 1892; *c.* Leota Irene, Henry David, Heleue Katharine, Dorothy Rachel. B.S., Univ. Ill., 1893.

Mote, John Henry Harrison, co. agrl. agt., Carthage, Mo.

Clerk Circuit Court, Newton Co., Mo., 1906–10; princ. schs., Neosho, 1910–3; distr. agrl. agt., Aurora, 1917; agt. Jasper Co., 1918—. *b.* Dark Co., O., Feb. 27, 1877; *s.* John S. and Sarah A. (Dunlap) M.; reared on farm; *m.* Zebbie J. Luney, Dec. 17, 1899; *c.* Laurah E., Lola J., J. H. H. Jr., Anne Mae, Delmar Gerald. B.Ped., Springfield State Normal, 1913; B.S.A., Univ. Mo., 1916.

Moulton, Charles Robert, assoc. prof. agrl. chem., Univ. Mo., Columbia, Mo.

Asst. agrl. chem., Univ. Mo., 1907–9; instr., 1909–12; asst. prof., 1912–8; assoc. prof., 1918—. Fellow A. A. A. S. *b.* Clifton, Pa., Sept. 16, 1884; *s.* C. Lewis and Maria Ross (Harper) M.; reared in city and country; *m.* Edith Lehnen, June 24, 1911; *c.* Ruth Elizabeth, Marjorie. B.S., Univ. Ill., 1907; M.S.A., Univ. Mo., 1909; Ph.D., 1911. Sigma Xi; Alpha Chi Sigma; Gamma Sigma Delta; Phi Lambda Upsilon.

Mowry, Jason L., assoc. prof. agrl. engin., Univ. Minn., University Farm, St. Paul, Minn.

Military instr., Ind. Sch. for Boys, 1898–9; instr. mech., Univ. Minn., 1908–12; asst. prof. agrl. engin., 1912–6; assoc. prof., 1916—. *Auth.:* Engineering Applied to Agriculture, 1918. *b.* Rockford, Ia., Nov. 3, 1877; *s.* Wheelock and Harriet E. (Hager) M.; reared on farm; *m.* Mary A. Ellsworth, Aug. 30, 1910. M.Di., Ia. State Teach. Coll., 1898.

Muckle, Leo Augustine, co. agrl. agt., Spring Valley, N. Y.

Spent 1 yr. in Argentine. *b.* Potter, N. Y., Nov. 9, 1892; *s.* Thos. and Margaret (Delaney) M.; reared on farm. B.S., Cornell Univ., 1916.

Mulford, Furman Lloyd, hort., U. S. Dept. Agr., Washington, D. C.

General farming, Pa., 1893–1900; teach. hort., Baron de Hirsch Agr. Sch., Woodbine, N. J., 1900–1; lands. gard. with Manning Bros., 1901–3; supt. parks, Harrisburg, Pa., 1903–11; lands. gard., U. S. Dept. Agr., 1911–6; hort., 1916—. Sec. Am. Assoc. of Park Supts., 1906–12. Collaborator, Lawn Soils and Lawns, 1912; Roses for the Home, 1917. *b.* Millville, N. J., Jul. 12, 1869; *s.* Furman L. and Anna (Lloyd) M.; reared in town; *m.* Edith Eyre, Feb. 21, 1905. B.S.A., Cornell Univ., 1892.

Mulford, Walter, prof. for., Univ. Calif., Berkeley, Calif.

State for. of Conn., and for. to Conn. Exp. Sta., New Haven, 1901–4; for. agt., U. S. For. Serv., 1904–5; asst. prof. for., Univ. Mich., 1905–7; junior prof., 1907–11; prof. for., Cornell Univ., 1911–4; present position, 1914—. *b.* Millville, N. J., Sept. 16, 1877; *s.* Furman and Anna (Lloyd) M.; reared in town; *m.* Vera Wandling, Jul. 1, 1903; *c.* Alice Stewart, Mary. B.S.A., Cornell Univ., 1899; For. Eng., 1901. Sigma Xi; Alpha Zeta.

Mullen, Clyde William, co. agrl. agt., Great Bend, Kans.

b. Phillipsburg, Kans., Sept. 28, 1890; *s.* Lafayette and Mary (Garwood) M.; reared on farm; *m.* Mildred Huse, June 3 1917; *c.* Margaret, Martha, B.S., Okla. A.&M. Coll., 1915; M.S., Kans. State Agr. Coll., 1917. Alpha Zeta.

Mumford, Frederick Blackmar, dean and dir. Coll. Agr., Univ. Mo., Columbia, Mo.

Asst. prof. agr., Mich. Agr. Coll., 1891–5; prof. agr., Univ. Mo., 1895–1905; prof. an. husb., 1905–9; acting dean, Coll. Agr., 1903–5; dean and dir., 1909—. Mem. Mo. State Bd. Agr.; chm. Mo. Council of Defense, 1917—; fed. food administrator for Mo., 1917—. *Auth.:* The Breeding of Animals, 1917. *b.* Moscow, Mich., May 28, 1868; *s.* Elisha Chas. Lindsley and Julia (Camburn) M.; reared on farm; *m.* Jessamine Kennedy, 1895; *c.* Margaret, Dorothy, Catherine, Ruth Elizabeth. B.S., Mich. Agr. Coll., 1891; M.S., 1893; studied at Leipzig, 1900; Zurich, 1901. Sigma Xi; Alpha Zeta.

Mumford, Herbert Windsor, prof. an. husb., Univ. Ill., Urbana, Ill.

Instr., Mich. Agr. Coll. and asst. Exp. Sta., 1895–6; asst. prof. agr. and an. husb. invest., 1896–9; prof. agr., 1899–1901; prof. an. husb., Univ. Ill. and chief an. husb., Ill. Exp. Sta., 1901—. Sec. Farm Home Reading Circle, Mich., 1895–9; chm. cattle jurors, St. Louis Expos., 1904. Investigated live-stock conditions in Great Britain, France, Belgium, Holland, 1897; Argentina, 1908. *Auth.:* Beef Production, 1908; joint auth., Practical Farming and Gardening, 1902. *b.* Moscow, Mich., Feb. 26, 1871; *s.* Elisha Chas. Lindsley and Julia A. (Camburn) M.; reared on farm; *m.* Lena Crosby, Jul. 5, 1898; *c.* Dwight Curtis, Mary Caroline, James Satterlee, Herbert W. Jr., Virginia. B.S., Mich. Agr. Coll., 1891. Sigma Xi; Alpha Zeta.

Muncie, Jesse Howard, path. insp., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Asst. bot., Ohio Exp. Sta., 1913; asst. plant path., Mich. Exp. Sta., 1913–7; research asst., 1917; present position, 1917—. *b.* Middlebury, Ind., Jul. 3, 1890; *s.* Wm. R. and Sarah C. (Varley) M.; reared in small town; *m.* Helen Marie Baber, Sept. 20, 1913; *c.* Marie Louise, Margaret Elinor. A.B., Wabash Coll., 1912; M.A., Cornell Univ., 1916.

Munger, George Howard, co. agrl. agt., Centerville, Ia.

Farmer, Wis., 2 yrs., Ia., 1 yr. *b.* Fairhaven, Minn., May 19, 1887; *s.* Leland Howard and Eliza J. (Cooley) M.; reared in city; *m.* Delia Myra Swain, June 14, 1916; *c.* Phyllis Louise. B.S.A., Ia. State Coll., 1915.

Munger, Harlan Bruce, prof. farm manag., Ia. State Coll., Ames, Ia.

With Off. Farm Manag., U. S. Dept. Agr., 1912–4; present position, 1914—. *b.* Byron, N. Y., Sept. 27, 1888; *s.* Henry M. and Nora (Wilcox) M.; reared on farm; *m.* Edna B. Bickford, Aug. 24, 1915; *c.* Henry M. B.S., Cornell Univ., 1912. Alpha Zeta; Phi Kappa Phi; Gamma Sigma Delta.

[Munro, W., p. 312.

Munson, Willard Anson, co. agrl. agt., Walpole, Mass.

Pres. Mass. Fruit Growers' Assoc. *b.* Hudson, Mass., Jan. 6, 1881; *s.* Myron F. and Mary Jane M.; reared on farm and in city; *m.* Helen M. Squier, Dec. 8, 1909; *c.* Janice, Willard Squier, Myron Montgomery. B.S., Mass. Agr. Coll., 1905. Phi Sigma Kappa; Phi Kappa Phi.

Murdock, Harvey Ellison, agrl. engin., Mont. Exp. Sta., Bozeman, Mont.

Instr. theoretical and applied mech., Univ. Ill., 1906–12; irrig. engin., U. S. Dept. Agr., 1913–4; present position, 1914—. *Auth.:* Strength of Materials, 1909; Irrigation Engineering, rev., 1915. *b.* O., Oct. 3, 1879; *s.* Ellison M. and Annie M. (Thrush) M.; reared on farm; *m.* Ina Indus Brown, 1907; *c.* Harold Esmond, Elizabeth Jane, Thomas Brown. B.S., Univ. Colo., 1906; M.E., 1908; C.E., 1911. Tau Beta Pi; Sigma Phi Epsilon.

Murphey, Howard Sylvester, prof. vet. anat., Ia. State Coll., Ames, Ia.

Present position, 1909—. *b.* O., Feb. 15, 1882; *s.* James H. and Amanda C. M.; reared on farm and in village; *m.* Mabel Slater, Dec. 21, 1903; *c.* David Sisson. D.V.M., Ohio State Univ., 1908. Phi Kappa Phi.

[Murphy, B., p. 312.

Murray, James, prof. cercal husb., Macdonald Coll., Que.

Supt. Exp. Farm., Brandon, Man., 1907–11; manag., Canadian Wheatlands, Ltd., Alta., 1911–5; present position, 1915—. *b.* Aveming, Ont., Nov. 2, 1882; *s.* Robt. and Agnes (Kay) M.; reared on farm; *m.* Florence Allan, June 25, 1908; *c.* James Allan, Margaret Campbell. B.S.A., Toronto Univ., 1902.

Murray, Reid Fred, asst. state leader co. agrl. agts., Univ. Wis., Madison, Wis.

Agrl. ext. agt., Northern Pacific R. R., 1913–6. *b.* Ogdensburg, Wis., Oct. 16, 1887; *s.* Geo. C. and Kittie (Livermore) M.; reared on farm. B.S., Univ. Wis., 1916.

Murray, Thomas Jefferson, assoc. prof. bact. and bact. Exp. Sta., Wash. State Coll., Pullman, Wash.

Asst. bact., Purdue Univ., 1913–5; assoc. prof. bact, and assoc. bact. Exp. Sta., Va. Poly. Inst., 1915–8; present position, 1918—. *b.* Nyack, N. Y., Oct. 13, 1891; *s.* Andrew and Josephine (Hanlon) M.; reared in city; *m.* Harriet Alida Palmer, Dec. 26, 1917. B.S., Coll. City of N. Y., 1913; M.S., Purdue Univ., 1915.

Musbach, Frederick Ludwig, asst. prof. soils, in chg. Exp. Sta. amd ext., Marshfield, Wis.

Asst. in Wis. Geol. and Nat. Hist. Survey, 1909–12. *b.* Saukville, Wis., Mar. 10, 1877; *s.* Wm. and Marie (Butzer) M.; reared on farm; *m.* Roxena Billings, Oct. 26, 1912; *c.* Wm. F. B.S., Univ. Wis., 1909. Sigma Xi.

Musgrove, G. C., co. agrl. agt., Moundsville, W. Va.

Dir. farmers' insts., Marshall Co. *b.* Fairmont, W. Va., Sept. 13, 1888; *s.* R. Q. and Susan Deliah (Rogers) M.; reared on farm. B.S.A., W. Va. Univ., 1914.

Mussehl, Frank Edward, prof. poultry husb., Univ. Neb., Lincoln, Neb.

Asst., poultry husb., Kans. State Agr. Coll., 1915–6; instr., Univ. Wis., 1916–7; prof., Univ. Neb., 1917—. *b.* Jefferson, Wis., Dec. 3, 1891; *s.* Wm. and Freda (Miller) M.; reared on farm; *m.* Inez L. Clough, June 20, 1917. B.S., Univ. Wis., 1915. Alpha Gamma Rho; Gamma Sigma Delta.

Musselman, Harry Hayes, assoc. prof. farm mech., Mich. Agr. Coll., E. Lansing, Mich.

b. Defiance Co., O., Sept. 13, 1880; *s.* Ira and Esther L. (Luce) M.; reared on farm; *m.* Anne I. Green, Dec. 1917. B.S., Mich. Agr. Coll., 1908. Tau Beta Pi.

Musser, Howard Burton, sci. asst., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Teach. high-sch., Terra Alta, W. Va., 1914–5; superv. sch. gard., Erie, Pa., 1917. *b.* S. Williamsport, Pa., Sept. 9, 1893; *s.* Calvin F. and Annie (Gettig) M.; reared in town and on farm. A.B., Bucknell Coll., 1914; B.S., Penn. State Coll., 1917. Sigma Chi.

Mutchler, Fred, dir. agrl. ext., Univ. Ky., Lexington, Ky.

Instr. Clark Univ., Worcester, Mass., 1903–4; asst. prof. biol., 1905–7; prof. agr. and biol. sci., State Normal Sch., Bowling Green, Ky., 1907–12; present position, 1914—. Pres. Ky. Div. Farmers' Educ. and Coop. Union of Am., 1915–6. *b.* Patricksburg, Ind., Oct. 16, 1871; *s.* John and Elizabeth (Rowe) M.; reared on farm; *m.* Florence May Merritt, June 14, 1905; *c.* Fred Merritt, Bradford Dean, Florence Elizabeth. A.B., Ind. Univ., 1903; Ph.D., Clark Univ., 1905. Delta Tau Delta.

Myers, Charles Emory, assoc. prof. plant-breeding, Penn. State Coll., State College, Pa.

Asst. hort., Penn. State Coll., 1908–10; assoc., 1910–7; present position, 1917—. *b.* near Tivoli, Pa., Feb. 23, 1882; *s.* John A. and Elizabeth J. (Kester) M.; reared on farm; *m.* Christine Alice Bidelspacher, Dec. 31, 1910; *c.* Chas. Andrew, Christine Elizabeth. B.S., Penn State Coll., 1908; M.S., Cornell Univ., 1910. Sigma Xi.

Myers, Clyde Hadley, prof. plant-breeding, State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Asst. plant-breeding, Ill. Exp. Sta., 1907–10; asst. prof., Cornell Univ., 1912–3; prof., 1913—. *b.* Randolph, Ill., Feb. 6, 1883; *s.* John J. and Justina Lauretta (Hadley) M.; reared on farm; *m.* Fleda De Vere Straight, 1910; *c.* John Straight. B.S., Ill. Wesleyan, 1907; M.S., Univ. Ill., 1910; Ph.D., Cornell Univ., 1912. Sigma Xi; Tau Kappa Epsilon; Gamma Alpha.

Myrick, Herbert, ed., auth. and pub., Myrick Bldg., Springfield, Mass.

Ed., Farm and Home; pres. Orange Judd Co. and dir. of farm weeklies — Northwest Farmstead (Minneapolis), Orange Judd Farmer (Chicago), Southern Farming (Atlanta), American Agricul-

turist, (New York), New England Homestead (Springfield). Chm. Mass. Farmland Bank, 1915; dir. Fed. Land Bank of Springfield; pres. Bushnell Co., Aberdeen, S. D., publishers Dakota Farmer. *Auth.:* How to Cooperate, 1891; Turkeys, How to Grow Them, 1895; Money Crops, How to Grow and How to Sell Them, 1895; Mortgage Lifters, 1895; Tobacco Leaf, 1896; The American Sugar Industry, 1897; The Hop, 1898; The Crisis in Agriculture, 1900; The Book of Corn, 1903; A Swim for Life, 1904; Cache la Poudre — a romance of his western life in the days of Custer, 1905; Promise of Life, 1905; Co-operative Finance, 1912; A National View of Southern Development, 1912; Federal Farm Loan System, 1916; Agricultural Preparedness, 1917. *b.* Arlington, Mass., Aug. 20, 1860; *s.* Henry Lewis and Lucy Caroline (Whittemore) M.; reared in country; *m.* Elvira Lawrence Kenson, Aug. 15, 1885; *c.* Cristine, Helen L., Donald. B.S., Mass. Agr. Coll. and Boston Univ., 1882.

N

Napier, J. M., co. agrl. agt., Darlington, S. C.

Asst. agron., Univ. Wis., 1910; asst. prof. agron., Clemson Agr. Coll., 1911–2; farm dem. agt., Richland Co., S. C., 1913; dem. agrl. educ., Darlington Co., 1914—. Manag. Darlington Coop. Creamery Co. *Auth.:* (with Barton and Stewart) Agriculture for School and Farm, Vol. I, 1915; Vol. 2, 1916. *b.* Blenheim, S. C., Aug. 21, 1887; *s.* J. L. and Marietta (Donaldson) N.; reared in village; *m.* Elizabeth Satterwhite, June 12, 1913. B.S.,Clemson Agr. Coll., 1908; M.S., Univ. Wis., 1909.

Nash, Claude L., co. agrl. agt., Coldwater, Mich.

Princ. high-sch., Lawton, Mich., 1909–10; teach. sci. and agr., Union City, 1910–3; instr. agr., Western State Normal, Kalamazoo, summer 1913; superv. agrl. work and sch. gardens, Muskegon High-Sch. and Hackley Manual Training Sch., Muskegon, 1913–6; agt. Branch Co., 1916—. Conducted first farmers' school held in Mich. in 1912. Sec. Mich. Soc. Promotion Agrl. Educ., 1912–3; corresponding sec., Muskegan Co. Hort. Soc., 1914. *b.* Grattan, Mich., June 5, 1884; *s.* Edward P. and Maria (Purdy) N.; reared on farm; *m.* Cherie Campbell, June 1910; *c.* Edward H., Eleanor L., Herbert Lewis. B.S., Mich. Agr. Coll., 1909.

[Nason, W. C., p. 312.

Neale, Alvin Scott, ext. specialist in dairying, Kans. State Agr. Coll., Manhattan, Kans.

Ext. lect. dairying, Ohio State Univ., 1908–13; present position, 1913—. *b.* Milnersville, O., Sept. 8, 1870; *s.* John and Phoebe Amanda (Rourk) N.; reared on farm; *m.* Emma M. Rogers, Dec. 25, 1893 (d. 1906); 2d Katherine E. Reese, June 15, 1911; *c.* John R., Comfort A., Philip E., Edward A. B.S.A., Ohio State Univ., 1904.

Negley, Noel, asst. dairy husb., U. S. Dept. Agr., Univ. Wis., Madison, Wis.

Dairy ext., U. S. Dept. Agr., 1912–8. *b.* Wahoo, Neb., Feb. 27, 1889; *s.* Sam F. and Lillie (Churchill) N.; reared on farm; *m.* Ella Belle Gunn, Sept. 3, 1914; *c.* Ardis Ruth. A.B., Univ. Neb., 1912; M.S., Univ. Wis., 1918.

Neil, James E., co. agrl. agt., Sioux City, Ia.

Co. agrl. agt., Wabasso, Minn., 1913–6; agt. Woodbury Co., Ia., 1916—. *b.* Long Grove, Ia., Oct. 4, 1886; *s.* John F. and Caroline (Brandt) N.; reared on farm; *m.* Edith C. Otto, Aug. 2, 1913; *c.* Lantha Dale. B.S.A., Ia. State Coll., 1911.

Nelson, Arthur E., asst. in marketing fruits and vegetables, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

b. Hallock, Minn., Oct. 10, 1892; *s.* N. A. and Betsy (Anderson) N.; reared in town. B.S.A., Univ. Calif., 1917. Theta Chi.

Nelson, Arthur W., live-stock farmer, Bunceton, Mo.

Pres. Cooper Co. Farm Bur.; fed. food administrator for Mo.; pres. Bank of Princeton. *b.* Cooper Co., Mo., Jan. 21, 1878; *s.* Arthur W. and Lalla (Marmaduke) N.; reared in town; *m.* Rilye Stephens, Mar. 25, 1903; *c.* Rilye S., Arthur W. III. M.D., Suwanee Coll., Tenn., 1900. Alpha Tau Omega.

Nelson, Aven, pres. Univ. Wyo., Laramie, Wyo.

Teach., Drury Coll., Springfield, Mo., 1883–5; princ. public schs., Ferguson,

Mo., 1885–7; prof. bot., Univ. Wyo., 1887—; acting pres., 1917–8; pres., 1918—. Sec. State Bd. Hort., 1906—. Fellow A. A. A. S., Bot. Soc. Am. *Auth.:* Report on the Flora of Wyoming, 1896; The Trees of Wyoming and How to Know Them, 1899; Key to Rocky Mountain Flora, 1902; Spring Flora of the Intermountain States, 1910. Reviser, New Manual Rocky Mt. Botany, 1909. *b.* Lee Co., Ia., Mar. 24, 1859; *s.* Christian and Anne (Evenson) N.; *m.* Celia Alice Calhoun, 1885. A.B. and B. Di., State Normal Sch., Kirksville, Mo., 1883; Mast. Sci. Didactics, 1889; A.M., Harvard Univ., 1892; M.S., Drury Coll., 1890; Ph.D., Univ. Denver, 1904.

Nelson, Casper Irving, asst. prof. bact., N. D. Agr. Coll., Agricultural College, N. D.

Asst. bact., Univ. Wis., 2 yrs.; present position, 1913—. *b.* River Falls, Wis., June 16, 1886; *s.* B. C. and Lina (Lien) N.; reared in town; *m.* Josephine H. Mortiboy, Jul. 30, 1912; *c.* Elizabeth H., Robt. C. A.B., Univ. Wis., 1912.

Nelson, Edward William, chief U. S. Biol. Survey, U. S. Dept. Agr., Washington, D. C.

Sci. explorer, Alaska, 1877–81; naturalist, U. S. steamer Corwin, 1881; with Biol. Survey, U. S. Dept. Agr., 1890—; chief field nat., 1907–12; chg. biol. invests., 1913–4; asst. chief, 1914; chief 1916—. Mem. Death Valley Exped., 1890–1; sci. explorer in Mex., 1892–1906. Pres. Am. Ornithologists' Union, 1908–9, 1912–3; pres. Biol. Soc. of Washington, 1912–3. *b.* Manchester, N. H., May 8, 1855; *s.* Wm. and Nancy M. (Wells) N. Grad. Cook Co. Normal Sch., Chicago, 1875.

Nelson, George Allen, co. agrl. agt., South Bend, Wash.

Supt. dairy, Salem, Ore., 1909–10. Del. to Nat. Farm Manag. Convention. Deputy state dairy and food comnr., 1911–2. *b.* Sonora, Calif., Jan. 31, 1882; *s.* Cornelius and Anna A. (Sutherland) N.; reared on farm; *m.* Clarice E. Dixon, Sept. 1, 1910; *c.* Alford Miles, Velma Lorraine, Eldred George, Ava Clarice. B.S.A., Ore. Agr. Coll., 1909.

Nelson, Gustave Andrew, co. agrl. agt., Salmon City, Ida.

b. St. Charles, Ida., Dec. 21, 1886; *s.* Rasmus Peter and Wilhelmina (Anderstead) N.; reared on farm; *m.* Mabel Maughan, Dec. 23, 1914; *c.* Roscoe Maughan. B.S., Utah Agr. Coll. Phi Kappa Iota.

Nelson, Herbert Edward, co. agrl. agt., Frankfort, Ind.

Farm manag., Va., 1914–8; co. agt., 1918—. With U. S. Naval Aviation, 1918—. *b.* Milwaukee, Wis., June 15, 1892; *s.* Edward B. and Margaret (Parker) N.; reared on farm; *m.* Jeannette Ashman, 1917. B.S., Univ. Wis., 1914.

Nelson, Lowry, asst. co. agt. leader, Utah Agr. Coll., Logan, Utah.

Sec. to pres., Utah Agr. Coll., 1916–7; present position, 1917—. *b.* Ferron, Utah, Apr. 16, 1893; *s.* Hyrum A. and Mary A. (Lowry) N.; reared on farm. B.S., Utah Agr. Coll., 1916. Delta Nu; Gamma Sigma Delta.

Nelson, Martin, dean Coll. Agr. and dir. Exp. Sta., Univ. Ark., Fayetteville, Ark.

Adj. prof. agron., Univ. Neb., 1906–7; asst. prof., 1907–8; prof. agron., Univ. Ark., 1908–13; dean and dir., 1913—; chg. agrl. ext., 1913–5. *b.* Crawford Co., Wis., Sept. 12, 1871; *s.* Erik and Christine (Olson) N.; reared on farm; *m.* Maude Agnes Farnham, Jan. 22, 1910; *c.* Helen Christine, Isabel May. B.S.A., Univ. Wis., 1905; M.S., 1906. Alpha Zeta.

Nelson, Oran Milton, assoc. prof. an. husb., Ore. Agr. Coll., Corvallis, Ore.

Instr. an. husb., Ore. Agr. Coll., 1913–7; assoc. prof., 1917—. *Auth.:* Part III, Potters' Western Live-Stock Management, 1917. *b.* La Crosse, Wis., Nov. 29, 1888; *s.* O. and Matilda (Olsen) N.; reared on farm and in town; *m.* Charlotte Lewis, Aug. 26, 1915. B.S.A., Univ. Wis., 1913. Alpha Zeta; Kappa Phi Gamma.

Nelson, Rufus J., ed. Farm and Ranch, Dallas, Tex.

Rice expert, Ark. Exp. Sta., 1905–8; prof. agr., Univ. Ark., 1908–9; prof. agrl. educ., 1909; present position, 1910—. Asst. supt. hort. for Ark., St. Louis Expos., 1904. *b.* Washington, Ark., Dec. 6, 1870; *s.* Sam H. and Alice (Wyatt) N.; reared on farm; *m.* Flossie Ella Sanderford, June 24, 1908; *c.* Alice, Lucile, Arthur. Normal Diploma, Univ. Ark., 1903; B.S., 1904; M.S., 1907.

Nelson, Sofus Bertelsen, prof. and dean Coll. Vet. Sci., Wash. State Coll., Pullman, Wash.

House surgeon, Ia. State Coll., 1889–90; present position, 1895—. State vet., Wash., 1895–1911; mem. State Bd. Health, Wash., 1895–1911. Sec. Wash. Live-Stock Assoc., 1904–10; sec. Northwest Live-Stock Assoc., 1910–2; sec. Cascade Inter. Stock Show, 1915. Del. Inter. Convention Tuberculosis, Washington, D. C., 1908. Traveled in Europe, 1893. *b.* Veile, Denmark, Dec. 21, 1867 (naturalized 1889); *s.* Niels P. and Maria (Bertelsen) N.; reared in town and on farm; *m.* Jettchen Uhden, Nov. 28, 1895. D.V.M., Ia. State Coll., 1880. Phi Kappa Phi; Alpha Psi.

Neuswanger, George, co. agrl. agt., Alliance, Neb.

b. Bloomington, Ill., Jan. 26, 1894; *s.* Chris N.; reared on farm. B.Sc., Univ. Neb., 1917. Phi Gamma Delta; Alpha Zeta.

Nevens, William Barbour, asst. prof. dairy husb., Univ. Neb., Lincoln, Neb.

Asst. dairy husb., Univ. Ill., 1914–7; present position, 1917—. Mem. bd. editors, Journal of Dairy Science. *b.* Winnebago, Ill., Nov. 27, 1885; *s.* Wm. Henry and Jessie F. (Hunter) N.; reared on farm; *m.* Martha C. Langwill, Aug. 6, 1914. B.S., Univ. Wis., 1914; M.S., Univ. Ill., 1917. Alpha Zeta.

Newhall, Harold Wendell, assoc. prof. dairying, Mich. Agr. Coll., E. Lansing, Mich.

Instr. dairying, Mich. Agr. Coll., 1911–2; with Carlyle Dairy Co., Calgary, Alta., 1912–3; manag. and dir. Sanitary Dairy, St. Catherines, Ont., 1913–7; present position, 1917—. *b.* Toronto, Ont., Oct. 22, 1885; *s.* Euegen Pierre and Georgina A. (Fraser) N.; reared in city and country. B.S.A., Ont. Agr. Coll., 1911.

Newhouse, Milton John, co. agrl. agt., Vancouver, Wash.

Princ. high-sch. and instr. agr., Kirkland, Wash., 1911–5; instr. elementary sci., Wash. State Coll., 1915–7; agt. Pond Oreille Co., Apr.–Nov. 1917; agt. Clarke Co., 1917—. *b.* Ten Post, Netherlands, Mar. 20, 1885 (naturalized 1910); *s.* John and Ethel (Wigboldus) N.; reared on farm; *m.* Ethel Smawley, Aug. 15, 1913. A.B., Wash. State Coll., 1911; B.S., 1917. Alpha Zeta; Phi Delta Theta; Delta Sigma Rho.

Newlander, Carl Edwin, dairy manufacturing specialist, Bur. An. Ind., U. S. Dept. Agr., Washington, D. C.

Instr. dairy manufacture, Mich. Agr. Coll., 1912–6; asst. prof., 1916–7; present position, 1917—. *b.* Benton, N. Y., Sept. 11, 1886; *s.* August and Anna (Pearson) N.; reared on farm; *m.* Ida Victoria Hard, Mar. 20, 1915; *c.* Virginia May. B.S., Cornell Univ., 1912.

Newman, Charles Carter, prof. hort. and hort. Exp. Sta., Clemson Agr. Coll., Clemson College, S. C.

Asst. hort., S. C. Exp. Sta., 1897–9; assoc. prof. and asst. hort., 1899–1900; present position, 1900—. *b.* Sparta, Ga., Sept. 6, 1874; *s.* James Stanley and Elberta (Lewis) N.; reared on farm; *m.* Grace Strode, May 7, 1912; *c.* Aubrey, Carter, Mildred, Wilson. B.S., Clemson Agr. Coll., 1896.

Newman, Clifford Lewis, prof. agron., N. C. A.&M. Coll., W. Raleigh, N. C.

Asst. prof. agr., Univ. Tenn., 1887–9; princ. distr. agrl. sch., Athens, Ala., 1889–91; asst. agrst., Ark. Exp. Sta., 1891–7; agrst. and prof. agr., Univ. Ark., 1897–1905; prof. agron. and agrst., Clemson Agr. Coll., 1905–8; present position, 1908—. *b.* Columbus, Ga., Jul. 25, 1864; *s.* James Stanley and Elberta (Lewis) N.; reared on farm. B.S., Ala. Poly. Inst., 1886; M.S., 1887. Phi Delta Theta.

Newman, Cyrus Edson, asst. boys' club agt., Ala. Poly. Inst., Auburn, Ala.

Asst. instr. an. husb., Ala. Poly. Inst., 1916; teach. agr., Talladega Co. high-sch., 1916–7; agt. Tallapoosa Co., Feb.–Sept. 1917; present position, 1917—. *b.* Goodwater, Ala., Aug. 28, 1893; *s.* W. O. and Ann (Staples) N.; reared on farm. B.S., Ala. Poly. Inst., 1916. Phi Kappa Phi; Gamma Sigma Delta.

Newman, John W., farmer, Versailles, Ky.

Asst. math., Ky. State Univ., 1888–97. Mem. Ky. House of Rep., 1904–6; Ky. State Senate, 1906–10. Sec. Ky. State Fair, 1908–11; comnr. of agr., Ky., 1912–6. General manag., Insular Fair, San Juan, Porto Rico, 1911. *b.* Monroe

Co., Ky., Jan. 23, 1869; *s.* John J. and Lucy (Harlan) N.; reared on farm; *m.* Annie Miller; 2d, Janie Slemp, 1916. B.S., Monroe Normal Sch., 1887; studied agr., Colo. Agr. Coll., 1889–9. Kappa Alpha.

Newsom, I. E., prof. vet. path. and path. Exp. Sta., Colo. Agr. Coll., Fort Collins, Colo.

Asst. vet. sci., Colo. Agr. Coll., 1906–7; prof. vet. anat., 1907–12; prof. vet. path., 1912—. State meat insp., Colo., 1907. Sec. for Colo., Am. Vet. Med. Assoc.; sec. Colo. Vet. Med. Assoc., 1912—. *b.* Mitchell Co., Tex., Apr. 13, 1883; *s.* Eli and Lydia (Russell) N.; reared on farm; *m.* Jessie S. Woods, Jul. 8, 1905; *c.* Fern, Shirley. B.S., Colo. Agr. Coll., 1904; D.V.S., San Francisco Vet. Coll., 1906; D.V.S., Kans. City Vet. Coll., 1909. Alpha Psi.

Newton, Samuel Thomas, dir. agrl. ext. serv., Winnipeg, Man.

Teach. public schs., 8 yrs.; teach. manual training, Winnipeg, 5 yrs.; asst. superv., 2 yrs.; chg. woodworking dept., Kelvin Tech. Sch., Winnipeg, 1 yr., chg. tech. dept., 2 yrs; present position, 1914—. *b.* Violet Hill, Ont., Jan. 27, 1875; *s.* Wm. and Sarah A. (Marshall) N.; reared on farm; *m.* Annie B. Borden, Jul. 8, 1907; *c.* Merlin Borden, Vera. Student Toronto Univ., 2 yrs.

Nicholls, William Durrett, prof. farm manag., Univ. Ky., Lexington, Ky.

Asst. an. husb., Ky. Exp. Sta., 1907–8; manag. and joint proprietor of farm, Bloomfield, Ky., 1908–12; asst. prof. an. husb., Univ. Ky., 1912–6; prof. and head dept. farm manag., 1916—. *b.* Bloomfield, Ky., Feb. 6, 1885; *s.* Archibald W. and Elizabeth (Dougherty) N.; reared on farm; *m.* Mary Elizabeth Hord, Sept. 1, 1913; *c.* Wm. Hord, Mary Elizabeth. B.S.A., Univ. Ky., 1907; M.S.A., 1915. Alpha Zeta.

Nichols, De Lore, co. agrl. agt., Flagstaff, Ariz.

Farmer, 1911–3; co. agt., 1917—; war garden superv., Apr.–Sept. 1917. Traveled in Great Britain and Europe. *b.* Brigham City, Utah, Jul. 14, 1889; *s.* Geo. W. and Lara (Jensen) N.; reared on farm. B.S., Utah Agr. Coll., 1917. Delta Nu.

Nichols, Mark Lovell, agrl. engin., Va. Poly. Inst., Blacksburg, Va.

Agron., T. N. Vail Agr. Sch., 1915; asst. prof. agron., Del. Coll., 1915–8; present position, 1918—. *b.* Bellevue, O., Jan. 24, 1888; *s.* M. R. and Alice (McCrillis) N.; reared in village; *m.* Nina A. Griffin, Jan. 24, 1913. B.S.A., Ohio State Univ., 1912; M.S., Del. Coll., 1918. Alpha Zeta.

Nichols, Ross, co. agrl. agt., Linneus, Mo.

b. Fairmont, Mo., Oct. 2, 1884; *s.* H. N. and Ida May (Starr) N.; reared on farm; *m.* Margaret B. Tompkins, Aug. 22, 1907; *c.* Carroll Starr, Oneta Marie, Marguerite Lucile. Student Univ. Mo.

[Nicholson, J. F., p. 312.

Niesley, Howard Graybill, co. agrl. agt., Dauphin Bldg., Harrisburg, Pa.

Princ. high-sch., Palenville, N. Y., 1911–3. *b.* Carlisle, Pa., Mar. 22, 1890; *s.* John B. and Lizzie E. (Graybill) N.; reared on farm. B.S., Penn. State Coll., 1917. Alpha Zeta.

Noble, John William, agrl. rep., Essex, Ont.

Sec. Ont. Corn Growers' Assoc., 1915–7. *b.* Hornings Mills, Ont., Jul. 14, 1893; *s.* Wm. Geo. and Elizabeth (McGhee) N.; reared on farm; *m.* Anna Mildred Heather, Aug. 12, 1914; *c.* Fred Wm. Kitchener, Margery Elizabeth. B.S.A., Ont. Agr. Coll. and Toronto Univ., 1913.

Nolan, Aretas Wilbur, asst. prof. agrl. educ., Univ. Ill., Urbana, Ill.

Princ. high-sch., Lima, Ind., 1904–8; assoc. prof. agrl. educ., W. Va. Univ., 1908–12; present position, 1912—; state superv. agrl. educ., 1918—. Sec. Nat. Collegiate Country Life Club. *Auth.:* One Hundred Lessons in Elementary Agriculture, 1911; Agriculture and Home Projects, 1916; The Teaching of Agriculture, 1918; A Year in Agriculture with Home Projects, 1918. *Asst ed.,* Rural Educator. *b.* Edgar Co., Ill., June 1, 1874; *s.* Fielden C. and Sarah M. (Pinson) N.; reared on farm; *m.* Myrta Phillips, Dec. 28, 1898; *c.* Phyllis M. A.B., Univ. Ind., 1905; M.S., W. Va. Univ., 1911. Kappa Alpha; Kappa Delta Pi.

Noland, David Reeves, dairy manufacturing specialist, U. S. Dept. Agr., Washington, D. C.

b. Crabtree, N. C., May 22, 1894; *s.*

David R. and Etta (Reeves) N.; reared on farm. B.S., Cornell Univ., 1915.

Norcross, Charles A., dir. agrl. ext., Univ. Nev., Reno, Nev.
Enrolling clerk, U. S. Senate, 1896–1904; comnr. agr., Nev., 1911–5. *b.* Reno, Nev., Nov. 6, 1866; *s.* Thos. W. and Caroline B. (Sherman) N.; reared on farm; *m.* Lydia Z. Lonkey, Feb. 26, 1896 (d. 1914). B.A., Univ. Nev.

Norgord, Christian Percival, comnr. of agr., Madison, Wis.
Princ. high-sch., 1899–1902; special agt. on barley breeding, U. S. Dept. Agr., 1905–6; agron., Univ. Ark., 1907–9; assoc. agron., Univ. Wis., 1909–13; supt. farmers' insts., 1913–5; comnr. agr., 1915—. *b.* Frederickshaven, Denmark, Oct. 25, 1874; *s.* James and Bertha (Hansen) H.; reared on farm; *m.* Effie M. Molley, Jul. 29, 1902; *c.* Gladys, Lucele, Helen. Ph.B., Univ. Wis., 1903; B.S.Agr., 1905. Alpha Zeta.

Norland, Norman, co. agrl. agt., Court House, Lincoln, Neb.
Teach. agr., St. Joseph's Acad., Ottumwa, Ia., summer 1916; princ. high-sch. and superv. agr., Blair, Neb., 1916–8. *b.* Marshall Co., Ia., Feb. 26, 1888; *s.* Nels. and Rachel (Peterson)N.; reared on farm; *m.* Aletta Brunswold, Jan. 23, 1918. B.Sc., Ia. State Coll., 1916. Alpha Zeta.

Northrup, Lydia Zae, research assoc. bact., Mich. Agr. Coll., E. Lansing, Mich.
Princ. Thompsonville high-sch., Mich., 1906–7; asst. bact., Mich. Agr. Coll., 1907–8; instr., 1908–13; asst. prof., 1913–8; research assoc., 1918—. *Auth.:* (with Giltner) Microbiology, 1916. *b.* Thompsonville, Mich., June 24, 1884; *d.* Orrin Mead and Alice Gertrude (Burlingame) N.; reared on farm. B.S., Mich. Agr. Coll., 1913; A.M., Univ. Mich., 1914. Omicron Nu.

Norton, Jesse Baker, plant physiologist, Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.
Librarian, Mo. Bot. Gard. 1899–1900; asst., U. S. Dept. Agr., 1900; asst. ent., Kans. State Agr. Coll., 1900–2; asst. prof. plant-breeding, Cornell Univ., 1907–8; asst. physiologist, Bur. Plant Ind., 1902–7; physiologist, 1908—. Fellow A. A. A. S. *b.* Leadvale, Tenn., Aug. 19, 1877; *s.* Samuel J. and Louisa (Kenyon) N.; reared in town and country. B.Sc., Kans. State Agr. Coll., 1897; M.Sc., 1901. Sigma Xi.

Norton, John Bitting Smith, bot. and plant path., Md. Exp. Sta., College Park, Md.
Asst. bot., Kans. Exp. Sta., 1895–6; bot. asst., Mo. Bot. Gard., 1896–1901; prof. bot., Md. Agr. Coll., 1901—. Sec. Md. State Hort. Soc., 1903–4; vice-pres. Am. Dahlia Soc., 1915–8. Fellow A. A. A. S. *b.* E. Tenn., Apr. 7, 1872; *s.* Samuel J. and Louisa (Kenyon) N.; reared in country and city; *m.* Gertrude J. Havens, 1897; 2d, Jennie Webster, 1907; *c.* Dorothy Viola, Frances Louise, Elizabeth Webster. B.S., Kans. State Agr. Coll., 1896; M.S., 1899.

Nourse, Edwin Griswold, prof. agrl. econ., Ia. State Coll., Ames, Ia.
Instr., Wharton Sch. Commerce and Finance, Univ. Penn., 1909–10; prof. econ. and sociol., Univ. S. D., 1910–2; asst. political econ., Univ. Chicago, 1914–5; prof. econ. and sociol., Univ. Ark., 1915–8; present position, 1918—. Chm. com. on marketing, Am. Assoc. for Agrl. Legislation. *Auth.:* Agricultural Economics, 1916; Outlines of Agricultural Economics, 1917; The Chicago Produce Market, 1918. *b.* Lockport, N. Y., May 20, 1883; *s.* Edwin Henry and Harriet Augusta (Beeman) N.; reared in village; *m.* Ray Marie Tyler, Aug. 17, 1910. A.B., Cornell Univ., 1906; Ph.D., Univ. Chicago, 1915.

Noyes, Harry Alfred, research assoc. in hort. chem. and bact., Ind. Exp. Sta., W. LaFayette, Ind.
Research asst., Ind. Exp. Sta., 1914–7; present position, 1917—. *b.* Marlborough, Mass., Jul. 7, 1890; *s.* Lambert Alfred and Bertha (Keirstead) N.; reared in city and country; *m.* Florence J. Fisherdick, June 25, 1913; *c.* Lorraine F., Arthur Alfred. B.S., Mass. Agr. Coll., 1912; M.S., 1914. Sigma Xi; Beta Kappa Phi.

Nuckols, Samuel B., asst. agrst., U. S. Dept. Agr., Washington, D. C.
Asst. prof. agron., W. Va. Univ., 1½ yrs.; asst. prof. agron., Colo. Agr. Coll., 1 yr. *b.* Savannah, Mo., Jul. 20, 1887; *s.* W. R. and M. F. (Snowden) N.; reared

on farm; *m.* Winona Woodward, Sept. 2, 1913; *c.* Roland Woodward, Elizabeth. B.S.A., Univ. Mo., 1911; M.A., 1912. Alpha Zeta.

Nyhus, Paul O., co. agrl. agt., Waupaca, Wis.

Teach. agr., high-sch., Fairchild, Wis., 1915–7; asst. farm manag. dem. surveys, Univ. Wis., 1917. *b.* Chippewa Falls, Wis., Apr. 18, 1894; *s.* O. J. and Anna P. (Anderson) N.; reared on farm. B.S., Univ. Wis., 1918.

Nystrom, Amer Benjamin, co. agrl. agt., Chehalis, Wash.

Instr. dairy mech. and testing, Ohio State Univ., 1907–9; instr. dairying, Kans. State Agr. Coll., 1909–10; instr., Wash. State Coll., 1910–2; asst. prof., 1912–4; prof., 1914–7; agt. Lewis Co., 1917—. *b.* Ostergotland, Sweden, Feb. 19, 1885 (naturalized as minor); *s.* Adolf Frederick and Anna Matilda (Carlson) N.; reared on farm; *m.* Mamie C. Frey, June 25, 1911. B.S.A., Kans. State Agr. Coll., 1907. Alpha Zeta.

O

Oakley, Russell Arthur, agron., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Auth.: (with Piper) Turf for Golf Courses, 1917. *b.* Marysville, Kans., Sept. 7, 1880; *s.* Thos, and Anna (McKee) O.; reared on farm; *m.* Bessie Clark Bell, Oct. 23, 1912. B.S., Kans. State Agr. Coll., 1903.

O'Brien, Harry Russell, asst. prof. agrl. journalism, Ia. State Coll., Ames, Ia.

Asst. reference librarian, Ohio State Univ., 1910–2; asst. English, Okla. A.&M. Coll., 1912–3; instr. English and journalism, 1913–5; present position, 1915—. *b.* Union, O., Dec. 12, 1889; *s.* Geo. and Josephine (Peirce) O.; reared on farm. B.A., Ohio State Univ., 1910; M.A., 1912. Pi Kappa Alpha; Sigma Delta Chi.

Odum, Howard Washington, prof. educ. sociol. and rural educ., Univ. Ga., Athens, Ga.

Instr., Univ. Miss., 1905–7; research agt., Bur. Municipal Research, Philadelphia, 1910–3; assoc. prof., Univ. Ga., 1913–5; prof., 1915—; supt. Univ. Summer Sch. for Teachers, 1916—. Contributing ed., American Journal of Race Development. *b.* Bethlehem, Ga., May 24, 1884; *s.* Wm. Pleasants and Mary Ann (Thomas) O.; reared on farm; *m.* Anna Louise Kranz, Dec. 24, 1910; *c.* Eugene Pleasants. A.B., Emory Coll., Oxford, Ga., 1904; A.M., Univ. Miss., 1906; Ph.D., Clark Univ., 1909; Columbia Univ., 1910.

O'Gara, Patrick Joseph, dir. dept. agrl. and smelter by-products invests., Am. Smelting and Refining Co., Salt Lake City, Utah.

Plant path. in chg. fruit disease invest., U. S. Dept. Agr., 1902–10; dir. Rouge River Fruit and Produce Assoc., Medford, Ore., 1910–4; special meteorlogical observer and local frost forecaster, U. S. Weather Bur., 1910–4; present position, 1914—. Fellow A. A. A. S.; Royal Meteorological Soc., London; mem. Royal Soc. Arts, London. Traveled in Mexico, Hawaii, Europe. *Assoc. ed.*, Better Fruit. *b.* Coleridge, Neb., Jul. 1, 1872; *s.* Roger Thos. and Bridget Susan (Hayes) O.; reared on farm; *m.* Anna Isabel Sloan, Nov. 1, 1906. B.S., Univ. Neb., 1902; Sc.D., 1917. Sigma Xi.

Ogilvy, Lyulph, writer, Denver Post, Denver, Colo.

Farmer, Greeley, Colo., 1880–1904; importer of live-stock. Special writer, Denver Post, and correspondent agrl. journals. Served in Spanish-American War, S. African War; Lieut. Scottish Horse, present war. *b.* London, England, June 25, 1861; *s.* Earl of Airlie and Blanche (Stanley) A.; *m.* Edith Gertrude Boothroyd, 1902; *c.* Jack David Angus.

O'Kane, Walter Collins, prof. econ. ent. and ent. Exp. Sta., N. H. A.&M. Coll., Durham, N. H.

Newspaper and magazine work, 1897–1909; asst. prof. econ. ent., N. H. A.&M. Coll., 1909–10; assoc. prof., 1910–1; prof., 1912—. Deputy comnr. of agr., N. H., 1913—. State nursery insp. Travelled in S. America, 1900. *Auth.:* Injurious Insects, 1913; Jim and Peggy at Meadowbrook Farm, 1916. *b.* Columbus, O., Nov. 10, 1877; *s.* Henry and Catherine (Van de Water) O.; reared in city; *m.* Clifford Hetherington, Dec. 30, 1902; *c.* Elizabeth, Catherine, Wm.,

Richard. B.A., Ohio State Univ., 1897; M.A., 1909. Sigma Xi; Beta Theta Pi.

Oldham, L. L., co. agrl. agt., Elkhorn, Wis.
Asst. dir. ext. work for Great Northern Ry., 1913–4; manag. Jas. J. Hill farm, St. Paul, Minn., 1914–6; agt. Walworth Co., 1916—. *b.* Madison, Wis., Sept., 23, 1889; *s.* Thos. W. and Helen Amintha (Latham) O.; reared on farm; *m.* Hilma Mae Critten, June 7, 1916; *c.* Jean Catherine. B.S.A., Univ. Wis., 1913. Alpha Zeta.

Oley, Warren Wilcox, co. agrl. agt., Bridgeton, N. J.
Farmer, Sparta, N. J., 1912–3; field asst. hort. dept., N. J. Exp. Sta., 1913–4; fruit specialist, ext. div., Rutgers Coll., 1914–5; co. agt., 1915—. Traveled through Mexico and Cent. America for Tehuantipec Rubber Co. *b.* Dunellen, N. J., Apr. 12, 1889; *s.* Chas. W. and Theodora I. (Wilcox) O.; reared in town and on farm; *m.* Grace Helen Clarke, Oct. 8, 1915; *c.* Warren Wheeler. B.Sc., Rutgers Coll., 1911.

Olin, Walter Herbert, superv. farm marketing, Frisco Lines, Frisco Bldg., St. Louis, Mo.
Rural sch. teach., 1880–6; princ. and supt. schs., Waverly, Ottawa, Osborne, Kans., 1890–1901; instr. farm crops, La. State Univ., 1902–4; prof. agron., Colo. Agr. Coll., 1904–6; vice-dean agr., 1906–8; ind. comnr., Denver, Laramie & N. W. Ry., 1908–11; dir. agrl. ext., Univ. Ida., 1911–4; comnr. agr., D. & R. G. R. R., 1914–6; present position, 1916—. *Auth.:* Olin's Commercial Geography, 1900; American Irrigation Farming, 1913. *b.* Walnut Grove, Calif., Aug. 7, 1862; *s.* Nelson and Harriett M. (Holly) O.; *m.* Winifred Estella Cotton, Nov. 27, 1890; 2d, Eleanor Lee, June 7, 1915. Grad. Kans. State Agr. Coll., 1889; M.Sc., 1893.

Olney, Albert Jackson, asst. prof. hort., Univ. Ky., Lexington, Ky.
Teach. sci. and agr., high-sch., Greenville, Mich., 1913–4; hort., Theo. N. Vail Agr. Sch., Lyndon, Vt., 1914–6; present position, 1916—. *b.* Fremont, Mich., Apr. 15, 1888; *s.* Bert John and Alice (Beem) O.; reared on farm; *m.* Lydia Branstrom, Jul. 8, 1914; *c.* Chas. Bert, Robt. Branstrom. B.S., Mich. Agr. Coll., 1913.

Olney, Raymond, ed. Power Farming and Power Farming Dealer, St. Joseph, Mich.
Ed., Farm Engineering, Springfield, O., 1913–5; present position, 1915—. *b.* Monroe Co., N. Y., Dec. 29, 1885; *s.* Amos M. C. and Martha (Collins) O.; reared on farm; *m.* Elisabeth Lloyd Watson, May 28, 1912. M.E., Cornell Univ., 1910.

Olsen, Anna Margrethe, asst. prof. home econ., Ia. State Coll., Ames, Ia.
Head food work, Univ. Neb., 1912–5; present position, 1915—. *b.* Herscher, Ill., May 10, 1883; *d.* A. Chr. and Anna (Risetter) O.; reared on farm. B.Sc., Teachers Coll., Columbia Univ., 1912. Omicron Nu.

Olsen, Arnold Lauritz, co. agrl. agt., Munising, Mich.
b. Manistique, Mich., May 20, 1892; *s.* August and Hannah A. (Drevdahl) O.; reared in city. B.S., Mich. Agr. Coll., 1916.

Olson, Oscar Milton, co. agrl. agt., Roseau, Minn.
Farmers' inst. worker, 1906–8; asst. supt. ext., Wash. State Coll., 1909–10; agrl. specialist ext., Univ. Minn., 1911–3; farmer, Montevideo, Minn., 1914–8. *b.* Prior Lake, Minn., Jan. 21, 1872; *s.* Henry and Mary E. (Field) O.; reared on farm; *m.* Lillian D. Gallagher, Apr. 24, 1907; *c.* Jeanette Bernice. B.S., Univ. Minn., 1905.

Olson, Peter J., asst. prof. agron., Univ. Minn., University Farm, St. Paul, Minn.
Instr. agr., Putnam High-Sch., Alexandria, Minn., 1910–2; present position, 1913—. *b.* Grafton, N. D., Oct. 12, 1887; *s.* Samuel and Nicoline (Anderson) O.; reared on farm; *m.* Myrtle May Stoltz, Sept. 2, 1914. B.S., N. D. Agr. Coll. M.S., Univ. Ill. Alpha Zeta; Phi Kappa Phi.

Olson, Roy Lethrup, co. agrl. agt., Zumbrota, Minn.
b. Bertha, Minn., Mar. 29, 1894; *s.* Robt. and Augusta (Anderson) O.; reared on farm; *m.* Elizabeth Bryan, Jan. 1, 1918. B.S., Univ. Minn., 1916.

O'Neal, Emmett Cleveland, co. agrl. agt., Milan, Mo.
b. Paris, Mo., Apr. 13, 1885; *s.* R. H.

and Virginia (Gollehon) O.; reared on farm; *m.* Ethel Pennington, June 9, 1909; *c.* Ernestine, Chas., Elizabeth, David. B.S.A., Univ. Mo., 1909.

Oosterhuis, Alvin Cecil, asst. prof. an. husb., Univ. Wis., Madison, Wis.
b. Sheboygan Falls, Wis., Dec. 8, 1884; *s.* Albert and Gertrude Ten (Dolle) O.; reared on farm. Traveled in Europe, 4 mos. B.S.A., Univ. Wis., 1909; M.S.A., 1910.

Opperman, Charles Louis, supt. Ridgely Substa., Ridgely, Md.
State poultryman, Md., 1906–11; poultry expert, U. S. Dept. Agr., 1911–3; swine husb., Md., 1913–4; present position, 1914—. Former ed., Tri-State Farmer. *b.* Staten Isl., N. Y., Sept. 30, 1885; *s.* Chas. Nickolas and Florence (Williams) O.; reared in town and country; *m.* Edna Gertrude Barrows, Dec. 19, 1910; *c.* Nancy Rideout. Special student, Cornell Univ.

Orr, Alfred W., co. agrl. agt., Livingston, Tex.
Agt. Kendrick Co., Ind., 1914–5; supt. farm of ex-vice-pres. C. W. Fairbanks, Green Co., Ill., 1916; present position, 1917—. *b.* Mt. Vernon, Mo., Sept. 4, 1875; *s.* John A. and Mary Frances (Scroggs) O.; reared on farm; *m.* Edith H. Dunlap, Dec. 29, 1897; 2d, Mary Elizabeth Stewart, June 18, 1913; *c.* Helen Pauline, Frances Anna. B.S.A., Univ. Mo., 1915.

Orr, William McGilvary, asst. in marketing, U. S. Bur. Markets, Bourse Bldg., Philadelphia, Pa.
Princ. Southern Ind. Inst., Charlotte, N. C., 3 yrs. *b.* Statesville, N. C., Mar. 21, 1889; *s.* R. W. and Emelie (McGilvary) O.; reared on farm; *m.* Ethel L. Fowle, Oct. 25, 1916; *c.* W. M. Jr. B.S., Davidson Coll., N. C., 1910. Kappa Alpha.

Orton, William Allen, plant path., U. S. Dept. Agr., Washington, D. C.
Asst. bot., Vt. Exp. Sta. and instr., Univ. Vt., 1898–9; plant path., U. S. Dept. Agr., 1899—; in chg. cotton, truck and forage crop disease invests., Bur. Plant Ind. Fellow A. A. A. S. Vice-chm., Fed. Hort. Bd. Del. to 4th Inter. Genetics Conference, Paris, 1911. *Ed.*, Phytopathology, 1918—. *b.* N. Fairfax, Vt., Feb. 28, 1877; *s.* Gardner G. and Electa W. (Allen) O.; reared on farm; *m.* Helen A. Davis, Apr. 20, 1903; *c.* Helen Alberta, Alice Louise. B.S., Univ. Vt., 1897; M.S., 1898; Sc.D., 1915. Phi Beta Kappa.

Osborn, Herbert, research prof. zool. and ent., Ohio State Univ., Columbus, O.
Asst. zool. and ent., Ia. State Coll., 1879; asst. prof., 1883–5; prof., 1885–98; prof. zool. and ent., Ohio State Univ., 1898–1916; research prof., 1916—; dir. Lake Lab., 1899–1918; dir. O. Biol. Survey, 1912—. Pres. Soc. Promotion Agrl. Sci., 1917–8; pres. Assoc. Am. Econ. Ent., 1898; pres. O. Acad. Sci., 1904. Traveled in Mexico and Europe. *Auth.:* Economic Zoology, 1908; Agricultural Entomology, 1916. *b.* Lafayette, Wis., Mar. 19, 1856; *s.* Chas. Paine and Harriet Newell (Marsh) O.; reared in village; *m.* Alice Isadore Sayles, Jan. 19, 1883; *c.* Morse Foster, Herbert Tirrill, Evelyn, Dorothy, Margaret Stanton. B.Sc., Ia. State Coll., 1879; M.Sc., 1880; D.Sc., 1916.

Osborne, Thomas Burr, research chem., Conn. Exp. Sta., New Haven, Conn.
Asst. instr., Sheffield Sci. Sch., Yale Univ., 1886–7; present position, 1886—; research assoc., Carnegie Inst. of Washington. Pres. Am. Soc. Biol. Chem., 1910. *Auth.:* Proteins of the Wheat Kernel, 1907; The Vegetable Proteins, 1909. *b.* New Haven, Conn., Aug. 5, 1859; *s.* Arthur Dimon and Frances Louisa (Blake) O.; reared in city; *m.* Elizabeth Annah Johnson, 1886; *c.* Arthur Dimon, Francis Blake. A.B., Yale Univ., 1881; Ph.D., 1885; Sc.D., 1910. Psi Upsilon.

Osburn, Raymond Carroll, prof. and head dept. zool. and ent., Ohio State Univ., Columbus, O.
Instr. biol. and embryology, Starling Med. Coll., 1898–9; prof. biol., Fargo Coll., 1899–1902; teach. biol., N. Y. High-Sch. of Commerce, 1903–7; instr. and asst. prof. zool., Barnard Coll., 1907–15; acting dir., U. S. Fisheries Lab., Woods Hole, Mass., 1909; acting dir., N. Y. Aquarium, 1910–1; asst. dir., 1911–5; prof. biol., Conn. Coll., 1915–7; present position, 1917—. Fellow A. A. A. S. *Ed.*, Transactions of Am. Fisheries Soc., 1913—. *b.* Newark, O., Jan. 4,

1872; *s.* Thompson E. and Elizabeth (Parr) O.; reared on farm; *m.* Mary Hubbell, Aug. 19, 1903. B.Sc., Ohio State Univ., 1898; M.Sc., 1900; Ph.D., Columbia Univ., 1906.

Oskamp, Joseph, assoc. pom., Purdue Exp. Sta., LaFayette, Ind.
Asst. hort., Purdue Exp. Sta., 1912–3; research asst. pom., 1914–6; assoc. pom., 1917—. *b.* Cincinnati, O., Jan. 22, 1888; *s.* Joseph A. and Elizabeth M. (Stall) O.; reared on farm; *m.* Achsa Moore, Oct. 26, 1914; *c.* Elizabeth. B.S., Univ. Mo., 1912. Sigma Xi.

Osmun, Albert Vincent, prof. bot. and head dept., Mass. Agr. Coll. and Exp. Sta., Amherst, Mass.
Asst., Storrs Exp. Sta., 1900–2; instr. bot., Mass. Agr. Coll., 1905–7; asst. prof., 1907–14; assoc. prof., 1914–6; prof. and head dept., 1916—. Bot., Mass. State Bd. Agr. Fellow A. A. A. S. *b.* Danbury, Conn., Jan. 20, 1880; *s.* John W. and Emma (Cook) O.; reared in city and on farm; *m.* Lena E. Latimer, June 27, 1907; *c.* Kenneth L., John Vincent. B.Agr., Conn. Agr. Coll., 1900; B.S., Mass. Agr. Coll. and Boston Univ., 1903; M.Sc., 1905.

Ostrander, Ward Adelbert, farm manag. dem., S. D. State Coll., Brookings, S. D.
Farm manag., Forrest City, Ark., 1911–3; asst. farm manag., Dicky Co., N. D., 1913; distr. agrl. agt., S. D. State Coll., 1914–6; farm manag. dem., 1916—; farm help specialist, S. D., 1917. Dir. Boys' Working Reserve for S. D. *b.* Oconomowoc, Wis., Nov. 15, 1888; *s.* Adelbert and Emma (Crandell) O.; reared on farm; *m.* Bernice Pendell, June 12, 1915; *c.* Reed Pendell, Max Howell. B.A., Lawrence Coll., Appleton, Wis., 1911; M.S.A., Univ. Wis., 1914. Delta Iota.

Otis, Daniel Henry, prof. farm manag., Univ. Wis., Madison, Wis.
Asst. agr., Kans. State Agr. Coll., 1892–6; asst. dairying, 1896–9; prof. dairy husb., 1899–1902; prof. an. husb., 1902–3; manag. Deming Ranch, Oswego, Kans., 1903–5; asst. and assoc. prof. an. nutr. and asst. to dean Coll. Agr., Univ. Wis., 1905–9; prof. farm manag., 1909–; asst. dean, Coll. Agr., 1911–8. Pres. Am. Farm Manag. Assoc.; sec.-treas. Am. Soc. of An. Production. *Auth.:* Farm Accounts Simplified, 1915; Household Accounts Simplified, 1916. Dairy ed., Kans. Farmer, 4 yrs. *b.* Topeka, Kans., Mar. 30, 1872; *s.* John G. and Bina (Numan) O.; reared on farm; *m.* Mary E. Lyman, Aug. 17, 1899; *c.* Edward N., Grant L., Chas. K., Stanley G. B.S., Kans. State Agr. Coll., 1892; M.S., 1897.

Otis, James Clifford, co. agrl. agt., White River Junction, Vt.
Teach., N. Y. State Normal and Training Sch., Cortland, 1912–3; teach., Middletown high-sch., 1913–5. *b.* Poplar Ridge, N. Y., Feb. 23, 1888; *s.* James J. and Julia E. (Taber) O.; reared on farm; *m.* Cecile E. Mignault, Jul. 18, 1914; *c.* James C. Jr., Janet Mignault. B.S., Cornell Univ., 1912. Kappa Phi.

Ousley, Clarence, dir. ext., Tex. A.&M. Coll., College Station, Tex.
Ed. Farm and Ranch, Dallas, Tex., 1886; manag. ed., Galveston News, Galveston Tribune, Houston Post, 1889–1903; ed. Fort Worth Record, 1903–13; present position, 1914—; asst. sec. agr., U. S. Dept. Agr., 1917—. Mem. Am. Comn. to study rural credits, Europe, 1913. *b.* Lowndes Co., Ga., Dec. 29, 1863; *s.* Wm. Henry and Henrietta (Scruggs) O.; *m.* Mary Young, Nov. 8, 1888. A.B., A. & M. Coll., Auburn, Ala., 1881; A.M., Simmons Coll., Abilene, Tex., 1906. Phi Delta Theta.

Overholser, Earle Long, asst. prof. pom., Univ. Calif., Berkeley, Calif.
Instr. pom., Cornell Univ., 1914–7; asst. prof., 1917–8; present position, 1918—. *b.* Kansas City, Mo., Dec. 19, 1888; *s.* Milton P. and Fannie Elizabeth (Long) O.; reared on farm and in town; *m.* Grace Elizabeth McClary, Oct. 18, 1917. B.S.A., Univ. Mo., 1913; M.A., 1914. Sigma Xi; Gamma Sigma Delta; Gamma Alpha.

Owens, George Washington, dir. agrl. dept., Va. Normal and Ind. Inst., Petersburg, Va.
Chg. dairy, Tuskegee Inst., 1899–1901; chg. div. dairy husb., 1901–8; present position, 1908—. *b.* Alma, Kans., Jan. 21, 1875; *s.* Samuel T. and Anne (Gordon) O. (col.); reared on farm; *m.* Waddie Logan Hill, Aug. 30, 1901; *c.* Emma, Geo. Jr., Elnora. B.Sc., Kans. State Agr. Coll., 1899.

P

Pacheco, Antonio, co. agrl. agt., Bernalillo, N. Mex

b. Sapello, N. Mex., Dec. 12, 1885; *s.* Florencio and Estamslada (Montoya) P.; reared on ranch; *m.* Cecilia Garcia, 1906; *c.* Bernahe, Adelmira, Margarita, Liberato, Roberto.

Packard, Edgar S., dir. country sch. dept., Ill. State Normal Univ., Normal, Ill.

Teach. rural sch., 1889–93; Logansport, Ind., city sch., 1893–7; instr. English, Winamac high-sch., Ind., 1897–1904; dir. dept. pedagogy, Grand Prairie Sem., Onarga, Ill., 1904–6; head English dept., State Normal Sch., River Falls, Wis., 1906–9; princ. co. normal sch., Berlin, Wis., 1909–14; present position, 1914—. *Auth.:* Picture Readings, 3d ed. 1918. *b.* Macy, Ind., Aug, 21, 1869; *s.* Wm. B. and Anna (Wilkinson) P.; reared on farm; *m.* Harriett Brown, Apr. 2, 1892; *c.* Carroll D., Russell L., Paul C. Grad. Ind. State Normal, 1901; student Univ. Chicago, Univ. Wis.

Packard, Walter E., asst. prof. agrl. ext. and state leader of farm advs., Univ. Calif., Berkeley, Calif.

Secured irrig. farm in Ida. in 1908 through Carey Act; field asst. irrig. invest., U. S. Dept. Agr., 1909; asst. prof. agron. in chg. Imperial Valley Exp. Sta., El Centro, Calif., 1910–7; present position, 1917—. Traveled in Europe, 1905. *b.* Oak Park, Ill., Feb. 22, 1884; *s.* Samuel Ware and Clara A. (Fish) P.; reared in town; *m.* Emma Leonard, Dec. 20, 1910; *c.* Clare Eleanor, Emma Louis. B.S.A., Ia. State Coll., 1907; M.S., Univ. Calif., 1910. Beta Theta Pi; Alpha Zeta.

Paddock, Wendell, prof. hort., Ohio State Univ., Columbus, O.

Asst. hort., N. Y. Agr. Exp. Sta., Geneva, 1893–9; hort., Colo. Agr. Coll. and Exp. Sta., 1899–1909; present position, 1909—. Fellow A. A. A. S. *Auth.:* (with Whipple) Fruit-Growing in Arid Regions, 1910. *b.* Three Oaks, Mich., Jul. 12, 1866; *s.* Steven Tappan and Aurelia (Butler) P.; reared on farm; *m.* Jessie G. Francis, Dec. 23, 1895; *c.* Francis, Elizabeth, Evelyn. B.S., Mich. Agr. Coll., 1893; M.S., 1898.

Page, Logan Waller, dir. Off. Public Roads and Rural Engin., U. S. Dept. Agr., Washington, D. C.

Geol., Mass. Highway Comn. and dir. testing lab., Lawrence Sci. Sch., Harvard Univ., 1893–1900; chief Div. Tests, U. S. Dept. Agr., 1900–5; present position, 1905—. Pres. Am. Highway Assoc.; chm. U. S. Highways Council. *Auth.:* The Testing of Road Materials, 1901. *b.* Richmond, Va., Jan. 10, 1870; *s.* Legh R. and Page (Waller) P.; *m.* Anne P. Shaler, Oct. 17, 1903. Educ. Va. Poly. Inst. and Harvard Univ.

Pailthorp, Raymond R., invest. in transportation of fruits and vegetables, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Asst. hort., Del. Exp. Sta., and asst. prof. hort., Del. Coll., 1913–7; present position, 1917—. *b.* Petoskey, Mich., Apr. 11, 1889; *s.* Chas. James and Jessie (Westcott) P.; reared on farm; *m.* Isabel Smith, June 16, 1916; *c.* Robt. Westcott. B.S., Mich. Agr. Coll., 1913.

Palmer, Charles Conger, prof. and head dept. bact., physiology and hygiene, Del. Coll., Newark, Del.

Instr. vet. med., Univ. Minn., 1913–5; asst. prof. physiology and vet. sci., 1915–7; present position, 1917—. Vet. ed., Farmers' Dispatch. Lieut., Vet. Corps, Nat. Army. *b.* Canton, O., Jul. 20, 1892; *s.* Chas. Curtis and Jula (Conger) P.; reared in city and on farm; *m.* Lucille Hamilton Long, Sept. 4, 1913. D.V.M., Ohio State Univ., 1912; M.S., Univ. Minn. Alpha Psi.

Palmer, Clayton Franklin, superv. agr., Los Angeles city schs., S. Pasadena, Calif.

Asst. agrst., Storrs Exp. Sta., 1898–9; instr. agr., State Normal Sch., Mansfield, Pa., 1899–1902; instr. nat. sci., high-sch., Palo Alto, Calif., 1903–7; instr. agr., Los Angeles State Normal, 1907–10; head agrl. dept., Gardena Agrl. High-Sch., 1910–2; present position, 1912—. *b.* Stockbridge, Mass., Aug. 6, 1876; *s.* Franklin A. and Sarah E. (Buck) P.; reared on farm; *m.* Jessie S. Bowen, Jul. 29, 1900; *c.* Carolyn, Spencer. B.S., Mass. Agr. Coll., 1897; M.A., Stanford Univ., 1905.

Palmer, Leroy Sheldon, asst. prof. dairy chem., Univ. Mo., Columbia, Mo.

b. Rushville, Ill., Mar. 23, 1887; *s.*

Samuel Cornelius and Anna Jane (Goodman) P.; reared in city; *m.* Nina Gay Wilcox, Sept. 14, 1911; *c.* Bess Wilcox, Leroy Sheldon Jr. B.S., Univ. Mo., 1909; M.A., 1911; Ph.D., 1913. Sigma Xi; Tau Beta Pi; Alpha Chi Sigma; Phi Mu Alpha.

Palmer, William Henry, state leader boys' and girls' club work, Ohio State Univ., Columbus, O.

Ext. specialist an. husb., Ohio State Univ., 1912–6; present position, 1916—. Farmer, 1907–12. *b.* Fairfield Co., O., Jul. 9, 1882; *s.* John and Emily (Miller) P.; reared on farm; *m.* Leila Sherwood Work, June 18, 1912; *c.* Karl Work, Dean Wm. B.S.A., Ohio State Univ., 1905; M.S.A., 1907. Alpha Zeta.

Park, Jay Boardman, prof. farm crops, Ohio State Univ., and assoc. agron. Exp. Sta., Wooster, O.

Asst. chem., Ill. Exp. Sta., 1908–11; assoc. plant-breeding, 1911–4; present position, 1916—. *Assoc. ed.*, Ohio Journal of Science, 1918—. *b.* Clarence, Ill., Jan. 30, 1884; *s.* Robt. Calvin and Harriet Grace (Holler) P.; reared on farm; *m.* Mary Ethel Nation, Aug. 31, 1909; *c.* Robt., Jean Eloise. B.A., Univ. Ill., 1908; M.S., 1912; Sc.D., Harvard Univ., 1916. Sigma Xi; Sigma Chi; Gamma Alpha.

Parke, Leland Stanford, state club leader, Univ. Ariz., Tucson, Ariz.

Farmer, Salt River Project, Ariz., 2 yrs.; agrl. field agt., 2 yrs. *b.* Paullina, Ia., Nov. 24, 1886; *s.* Frank Leslie and Jennie (Morehouse) P.; reared in town. B.S., Ia. State Coll., 1911. Phi Kappa Psi.

Parker, John H., asst. prof. farm crops, Kans. State Agr. Coll., Manhattan, Kans.

Sci. asst., Bur. Plant Ind., U. S. Dept. Agr., 1913–7; present position, 1917—. *b.* St. Paul, Minn., Aug. 13, 1891; *s.* Chas. D. and Frances (Comings) P.; reared in town; *m.* Marjorie E. Marchhonk, June 25, 1917. B.S., Univ. Minn., 1913; M.S., Cornell Univ., 1916. Alpha Zeta.

Parker, Ralph Coy, co. agrl. agt., Riverhead, N. Y.

Suffolk Co. rep., N. Y. State Food Supply Comn. *b.* Spencerport, N. Y., May 20, 1890; *s.* Chas. R. and Hattie (Coy) P.; reared on farm; *m.* Mildred Hallett, Feb. 9, 1918. Commercial course, Rochester Business Inst., 1911; B.S., Cornell Univ., 1917. Alpha Gamma Rho.

Parker, William Bell, asst. prof. agrl. ext., Univ. Calif., and farm adv., Ventura, Calif.

With Bur. Ent., U. S. Dept. Agr., 1911–4; present position, 1914—. *b.* Minneapolis, Minn., Dec. 27, 1885; *s.* Wm. W. and Harriet E. (Bell) P.; reared in small town; *m.* Helene B. Sutliff; *c.* Helen Margaret. B.S., Univ. Calif., 1910; M.S., 1912. Sigma Xi; Alpha Zeta.

Parkinson, Harry Glenn, assoc. prof. agrl. educ., Penn. State Coll., State College, Pa.

Teach., Am. Farmers' Sch., Minneapolis, 1913–5; Mt. Pleasant Voc. Sch., 1915–7; present position, 1917—. *b.* Time, Pa., May 16, 1890; *s.* John. L. and Caroline (Simpson) P.; reared on farm; *m.* Mary Hope Patton, Dec. 28, 1910; *c.* John Patton, Alice Jane, Harry G. Jr. A.B., Waynesboro Coll., 1911; B.S.A., Univ. Ill., 1913. Phi Sigma; Tau Kappa Epsilon.

Parrott, Percival John, ent., N. Y. Agr. Exp. Sta., Geneva, N. Y.

Asst. ent., Kans. State Agr. Coll., 1898–9; asst. ent., N. Y. Agr. Exp. Sta., Geneva, 1900–2; ent., Ohio Exp. Sta., 1902–4; present position, 1904—. Fellow A. A. A. S.; fellow Ent. Soc. of Am. Vice-pres. Am. Assoc. Econ. Ent., 1910, pres., 1914; mem. adv. com., Journal Econ. Ent., 1915—; mem. exec. com., Ent. Soc. of Am., 1916; ent., Kans. Hort. Soc., 1898–9; N. Y. State Fruit-Growers' Assoc., 1905–10; W. N. Y. Hort. Soc., 1905–17. *b.* Croydon, England, May 28, 1874 (naturalized as a minor); *s.* Joseph and Emma (Belgrove) P.; reared on farm; *m.* Florence Mildred Hubbard, Sept. 5, 1906; *c.* Florence Margaret, Percival John. A.B., Kans. State Univ., 1897; A.M., 1898. Phi Beta Kappa; Sigma Xi.

Parry, William Theodore, co. agrl. agt., Elk River, Minn.

Agrl. dir., high-sch., Elk River, Minn., 1912–6; St. Cloud, 1916–8; present position, 1918—. *b.* Linwood, Kans., Oct. 9, 1889; *s.* Hugh and Sarah Esther (Tudhope) P.; reared on farm; *m.* Etta Fay Reid, June 16, 1913; *c.* Theodore

Albert, Esther Laura. B.S.A., Kans. State Agr. Coll., 1912.

Parsons, Thomas Smith, ext. agron. and soil specialist, Univ. Wyo., Laramie, Wyo.

Instr. preparatory dept., S. D. State Coll., 1899–1900; princ. and inst. sci., high-sch., Watertown, S. D., 1902–6; Durango, Colo., 1906–9; prof. agron., Univ. Wyo., 1910–18; present position, 1918—. State seed analyst for Wyo., 1912—. *b.* Ivinghoe, England, Aug. 5, 1873 (naturalized as a minor); *s.* Henry and Emily (Williams) P.; reared on farm; *m.* Mabel Doughty, June 25, 1902; *c.* Celia H., Henry O. B.S., S. D. State Coll., 1897; M.S., 1898.

Paschall, Arthur Lee, co. agrl. agt., Riverside, Calif.

Teach. Lahainaaluna Sch., Hawaii, 1908–9; supt. Exp. Sta., Lubbock, Tex., 1911–2; field chem., Olaa Sugar Co., Hawaii, 1913; farm adv., Cochin and Santa Cruz cos., Ariz., 1913; agt. Riverside Co., Calif. *b.* Vaughan, N. C., Jan. 27, 1884; *s.* J. W. H. and Martha (Staling) P.; reared on farm; *m.* Verda Clapham, Oct. 25, 1912. B.S.A., N. C. A.&M. Coll., 1907.

Patch, Edith Marion, ent., Me. Exp. Sta., Orono, Me.

Teach. English and zool., high-sch., Hastings, Minn., 1901–2; teach. English, high-sch., Crookston, 1902–3; present position, 1903—. Fellow A. A. A. S.; fellow Ent. Soc. of Am. *Auth.:* Dame Bug and Her Babies, 1913; How Laddie Tells the Time o' Year, 1914. *b.* Worcester, Mass., Jul. 27, 1876; *d.* Wm. Whipple and Salome (Jenks) P.; reared on farm. B.S., Univ. Minn., 1901; M.S., Univ. Me., 1910; Ph.D., Cornell Univ., 1911. Sigma Xi; Phi Kappa Phi; Delta Delta Delta.

Patch, Gifford Jr., co. agrl. agt., Greenville, Mich.

Asst. lab. instr. soils, Mich. Agr. Coll., 1915–6; teach. agr. and sci., high-sch., Mt. Pleasant, Mich., 1916–8; agt. Montcalm Co., 1918—. *b.* Liberty, Mich., Jul. 14, 1890; *s.* Gifford and Lavina (McGraw) P.; reared on farm; *m.* Frances E. Kirk, Aug. 31, 1916; *c.* Frances K. B.S., Mich. Agr. Coll., 1916.

Pate, H. Oscar, prof. agrl. econ. and chg. editorial work, Miss. A.&M. Coll., Agricultural College, Miss.

b. Coffeeville, Miss., Oct. 14, 1886; *s.* H. P. and Martha Camelia (Farrell) P.; reared on farm; *m.* Ethel Liware Kirby, Dec. 25, 1912; *c.* Hal Payson. A.B., Univ. Miss., 1911; M.Sc., Miss. A.&M. Coll., 1913.

Paterson, Frank Chester, agrl. rep., Huntsville, Ont.

b. Ellesmere, Ont., Apr. 8, 1894; *s.* Arch J. and Mary (Chester) P.; reared on farm; *m.* Eva McGregor, June 15, 1917. B.S.A., Ont. Agr. Coll., 1915.

Pattee, Richard, sec.-manag. New England Milk Producers' Assoc., 26 Broad St., Boston, Mass.

Master N. H. State Grange. Sec.-treas. Am. Devon Cattle Club. Mem. N. H. Bd. Agr.; N. H. cattle comnr. *b.* Alexandria, N. H., Apr. 27, 1872; *s.* Samuel L. and Lucy E. (Kelley) P.; reared on farm; *m.* Esther E. Ellis, Oct. 15, 1905; *c.* Samuel W., Mary E. Student Univ. Minn., Dartmouth Coll.

Patten, Andrew Jarvis, chem., Mich. Exp. Sta., E. Lansing, Mich.

Asst. chem., Me. Exp. Sta., 1897–1900; asst. chem., N. Y. Agr. Exp. Sta., 1900–5; present position, 1905—. *b.* Cherryfield, Me., Jul. 1, 1874; *s.* Frank W. and Martha (Campbell) P.; reared in town; *m.* Helena M. Dyer, May 1, 1911. B.S., Univ. Me., 1897; studied Univ. Heidelberg, 1902–3. Phi Kappa Phi; Alpha Tau Omega.

Patterson, Harry Jacob, dir. Md. Exp. Sta., College Park, Md.

Asst. chem., Penn. Exp. Sta., 1886–8; chem., Md., Exp. Sta., 1888—; dir., 1898—; pres. Md. Agr. Coll., 1913–7. Fellow A. A. A. S. Pres. Assoc. of Official Agrl. Chem. *b.* Yellow Springs, Pa., Dec. 17, 1867; *s.* Wm. Calvin and Adaline (Mattern) P.; reared on farm; *m.* Elizabeth Hayward Hutchinson, Oct. 25, 1895; *c.* Blanche Seely, Wm. Calvin. B.S., Penn. State Coll., 1886; D.Sc., Md. Agr. Coll., 1912.

Patterson, Howard F., farmer, Aberdeen, S. D.

Asst. prof. agron. and princ. Sch. Agr., Mont. State Coll., 1909–12; supt. S. D. Better Farming Assoc., 1912–5; seedsman, farmer and rancher, 1915—. Pres. Interstate Live-Stock Breeders' Assoc.; sec. Brown Co. Agrl. Ext. Assoc. *Ed.,* North-

western Stockman and Farmer, Helena, Mont., 1909–11. *b.* Burt, Ia., Mar. 30, 1886; *s.* Geo. N. and Elizabeth (Mackay) P.; reared on farm; *m.* Genevieve Harris, Aug. 6, 1913; *c.* Harris H., Ann Elizabeth. B.S., Ia. State Coll., 1909. Delta Theta Sigma.

Pattison, Benjamin Purdy, co. agrl. agt., Escanaba, Mich.

Prof. an. husb., W. Va. Univ., 1913–4; athletic coach, Purdue Univ., 1915–8. *b.* Caro, Mich., Oct. 9, 1890; *s.* James and Mary May P.; reared on farm; *m.* Elsie Mathes, Apr. 17, 1918. B.S.A., Mich. Agr. Coll., 1912.

Payson, James Milford, asst. dir. N. Y. State Sch. Agr., Canton, N. Y.

Minister, 30 yrs.; sec. N. Y. State Sch. Agr., 1907–17; asst. dir., 1917—. Trustee St. Lawrence Univ. *b.* S. Freedom, Me., Apr. 13, 1848; *s.* Sion Wentworth and Mary (St. Clair) P.; reared on farm; *m.* Flora A. Bassett, June 13, 1874; *c.* Clarence, Clara. D.D., St. Lawrence Univ., 1900. Theta Gamma.

Peairs, Leonard Marion, prof. ent. and ent. Exp. Sta., W. Va. Univ., Morgantown, W. Va.

Instr. ent. and zool., Md. Agr. Coll., 1908–9; prof., 1909–10; instr. ent., Kans. State Agr. Coll., 1910–2; assoc. prof. ent., W. Va. Univ., 1912–3; prof., 1913—. *b.* Lawrence, Kans., June 5, 1886; *s.* Chalmers Addison and Susan (Banta) P.; reared on farm and in town; *m.* Edith Pennington, June, 1915; *c.* Chalmers Addison, Dorothea Janet. B.S.A., Kans. State Agr. Coll., 1905; M.S., 1907; grad. student and fellow, Univ. Chicago, 1916–7. Sigma Xi.

Pearl, Raymond, prof. biometry and vital statistics, Sch. Hygiene and Public Health, Johns Hopkins Univ., Baltimore, Md.

Asst. zool., Univ. Mich., 1889–1902; instr., 1902–6; instr., Univ. Penn., 1906–7; biol. and head dept., Me. Exp. Sta., 1907–18; present position, 1918—; lect. Grad. Sch. Agr., Ames, Ia., 1910, E. Lansing, Mich., 1912. Chief Statistician, U.S. Food Administration. Mem. Nat. Acad. Sci.; Am. Philosophical Soc. Hon. sec. Inter. Assoc. Poultry Instrs. and Invests.; mem. Inter. Eugenics Council; hon. mem. Imperial Russian Soc. for Aviculture. Mem. exec. com. and chm. agr. comn., Nat. Research Council, 1915-8. *Auth.:* Variation and Differentiation in Ceratophyllum, 1907; (with A. B. Clawson) Variation and Correlation in the Crayfish, 1907; (with Surface and Curtis) Poultry Diseases and Their Treatment, 1911; Modes of Research in Genetics, 1915; Diseases of Poultry, 1915; (with E. P. Matchett) Reference Handbook of World Food Statistics in Relation to the War, 1918. *Assoc. ed.,* Journal Applied Microscopy, 1900–5; Zool. Jahresber, 1906–7; Biometrika, 1906–10; Zentrlbl. allg. Biol., 1910–5; Journal Agricultural Research, 1914–8; Genetics, 1915—; Journal Experimental Zoology, 1915--; chm. editorial bd., Proc. Nat. Acad. Sci., 1916—. *b.* Farmington, N. H., June 3, 1879; *s.* Frank and Ida May (McDuffie) P.; reared in town; *m.* Maud Mary DeWitt, June 29, 1903; *c.* Ruth DeWitt, Penelope Mackay. A.B., Dartmouth Coll., 1899; Ph.D., Univ. Mich., 1902. Phi Kappa Psi.

Pearson, Raymond Allen, pres. Ia. State Coll., Ames, Ia.

Asst. chief Dairy Div., U. S. Dept. Agr., 1895–1902; general manag., Walker-Gordon Lab. Co., N. Y. and Philadelphia, 1902–3; prof. dairy ind., Cornell Univ., 1903–8; comnr. agr., N. Y. State, 1908–12; present position, 1912—; asst. sec., U. S. Dept. Agr., 1917–8. Fellow A. A. A. S. Pres. N. Y. State Agrl. Soc., 1908–11. *b.* Evansville, Ind., Apr. 9, 1873; *s.* Leonard and Lucy S. (Jones) P.; *m.* Alice Dunsford; *c.* 1 daughter. B.S., Cornell Univ., 1894; M.S., 1899; LL.D., Alfred Univ., 1910; D.Agr., Univ. Neb., 1917. Sigma Xi.

Peck, Arthur Lee, prof. lands. arch. and flor., Ore. Agr. Coll., Corvallis, Ore.

In lands. arch. offices, Boston and Montreal, 1904–7; Kans. State Agr. Coll., 1907–8; Ore. Agr. Coll., 1908–10; professional work, 1910–2; present position, 1913—. *b.* Ansonia, Conn., Nov. 14, 1882; *s.* Wilbur N. and Lois L. (Norton) P.; reared in city; *m.* Sara Browning Root, 1906; *c.* Norton Lee, Nella Browning, Eliot Root. B.S., Mass. Agr. Coll., 1904; B.A., Boston Univ., 1904. Phi Kappa Phi.

Peck, Francis Winfred, assoc. prof. farm manag. and asst. agrst., Univ. Minn., University Farm, St. Paul, Minn.

Asst. prof. farm manag., Univ. Minn.,

1912–5; assoc. prof., 1918—. Vice-pres. Am. Farm Manag. Assoc. *Auth.:* Farm Records and Accounts, 1914. *b.* St. Paul, Minn., May 20, 1885; *s.* U. A. and Emma (Anderson) P.; reared on farm; *m.* Hazel Dell Blanchard, Nov. 12, 1912; *c.* Elizabeth Gail, Shirley Jane. B.S.A., Univ. Minn., 1912; M.S., 1917. Sigma Xi; Alpha Zeta; Gamma Sigma Delta.

Peck, Fred Eldred, co. agrl. agt., Pittsfield, Mass.

Teach. agr., Mt. Hermon, Mass., 1907–9; chem. and bact., Fairfield Dairy Co., Mt. Clair, N. J., 1909–10; head agrl. dept., Berry Sch., Rome, Ga., 1910–1; general manag., supt. grounds and bldgs., Wilderham Acad., 1911–6; agrl. agt., Berkshire Co., 1916—. *Ed.*, dairy dept., Southern Agriculturist, 1 yr. *b.* New Brunswick, Apr. 8, 1876; *s.* Gilbert M. and Nancy (Turner) P;. reared on farm; *m.* Sadie K. Ladd, Oct. 29, 1909. B.S.A, Cornell Univ., 1906.

Peet, Nelson Rusk, co. agrl. agt., Lockport, N. Y.

Nurseryman and fruit-grower, Webster, N. Y., 6 yrs. Co. rep., N. Y. State Food Supply Comn. *b.* Rochester, N. Y., May 17, 1889; *s.* J. Clinton and Marion (Green) P.; reared in city; *m.* Gertrude M. Barry, Jul. 10, 1912; *c.* Samuel Clinton, Barry. B.S.A., Cornell Univ., 1910. Alpha Zeta.

Pelletier, Joseph Noel, dir. Ecole d'Agriculture, St. Anne de la Pocatiere, Kamouraska, Que.

b. St. Roch des Aulnaies, Que., Dec. 24, 1880; *s.* Odilon and Helene (Lapointe) P.; reared on farm. Catholic priest.

Peltier, George Leo, prof. plant path., Ala. Poly. Inst., and path. Exp. Sta., Auburn, Ala.

Teach. sci., Wauwatosa high-sch., Wis., 1910–1; teach. fellow, Shaw Sch. Bot., Washington Univ., 1911–2; asst. flor. path., Univ. Ill., 1912–4; assoc., 1914–6; present position, 1916—. *b.* Merrill, Wis., May 8, 1888; *s.* Emile and Georgiana (Laramie) P.; reared in town; *m.* Florence L. Quinn, Sept. 23, 1913; *c.* Marjorie Isabelle. A.B., Univ. Wis., 1910; M.A., Washington Univ., 1912; Ph.D., Univ. Ill., 1915. Sigma Xi; Gamma Alpha; Phi Kappa Phi.

Pember, Frederick Russell, plant physiologist, R. I. State Coll., Kingston, R. I.

Asst. soil fert., Bur. Soils, U. S. Dept. Agr., 1903–6; present position, 1906—. *b.* Putney, Vt., Jan. 27, 1877; *s.* Milton Hyde and Freelove (Croff) P.; reared on farm; *m.* Jennie Maria Cole, June 17, 1908. B.S.A, Univ. Vt., 1900; M.S., 1908.

Pence, Merrill Oleo, state co. agt. leader, Del. Coll., Newark, Del.

Asst. agron., Del. Coll., 1911–3; farmer, Ind., 1913–4; agrl. agt., Kent Co., Del., 1914–5; Hendricks Co., Ind., 1916; present position, 1917—. *b.* Converse, Ind., Aug. 15, 1887; *s.* B. F. and Ella (Wood) P.; reared on farm; *m.* W. Ethel Lewis, Sept. 1, 1912; *c.* M. Lewis. B.S., Purdue Univ., 1911. Alpha Zeta.

Pendry, James Wallace, co. agrl. agt., Mason City, Ia.

Asst. lab. instr., Ia. State Coll., 1917–8. In U. S. Army, 1918—. *b.* Chicago, Ill., Dec. 21, 1892; *s.* J. H. and Fanny (Reed) P.; reared in city. B.S., Ia. State Coll., 1918.

Perrin, Louis E., distr. agrl. agt., St. Landry, La.

Truck farmer, Tex., 1886–7; La., 1887–91; worked in sugar house, 1888–94; sugar boiler, 1895–1900; plantation manag., La., 1901–4; cotton buyer and ginner, 1904–5; dem. farm agt., S. La., 1905–7; distr. agt., S. La., 1908–15; dem. and ext. agt., 1916—. Ex-Lieut., French Army, 1878. Traveled in French colonies, Algeria, Madagascar, 1874–9. *b.* Burgundy, France, May 24, 1854 (naturalized 1886); *s.* Claude and Francoise P.; reared in country; *m.* Josephine V. Laurent, 1879; *c.* L. E. Jr., Lucien L., Claudine P., Alice H. Grad. Leland Agr. Sch., France.

Perry, Enos Johnson, co. agrl. agt., Wellsboro, Pa.

b. Stewartstown, Pa., Apr. 24, 1892; *s.* Harry Lincoln and Emma (Johnson) P.; reared on farm. B.S., Penn. State Coll., 1916.

Perry, William Montgomery, co. agrl. agt., Danville, Va.

Missionary in Africa, 18 mos. Pub., Boys' Club Letter. *b.* Wylliesburg, Va., Apr. 28, 1876; *s.* John Major and Lida

(Bush) P.; reared on farm; *m.* Virginia Davis, 1903; *c.* Marjorie Lillian, Owen Major. Student, Va. Poly. Inst., 1894–8; Union Missionary Training Inst., Brooklyn, 1900–3.

Persons, Silas Edward, minister, in chg. rural churches in W. Md., 2321 Maryland Ave., Baltimore, Md.

Minister, Boulder, Colo., 1885–90; Cazenovia, N. Y., 1890–1917. Organizer of the Cazenovia Co. Fair, 1912. Traveled in Europe, Egypt, Palestine, 1892, 1901. *b.* Bennington, N. Y., Jan. 7, 1857; *s.* Edward R. and Sophia (Hutchinson) P.; reared on farm; *m.* Elizabeth Cowles, Dec. 30, 1885; *c.* Elizabeth, Oren H., Mildred. A.B., Hamilton Coll., 1881; Union Theol. Sem., 1885; A.M., Univ. Colo., 1888; D.D., Hamilton Coll., 1909.

Pervier, Clayton C., farmer, Sheffield, Ill.

Former mem. Ill. Centennial Comn. Mem. lower house, Ill. General Assembly, 4 terms; at present State Senator. Sent to Europe in 1912 to write up agrl. conditions for Farmers' Review. Treas. Ill. Alfalfa Growers' Assoc.; former pres. and sec., Bur. Co. Farmers' Inst. Lect. in farmers' insts., 20 yrs. Former ed., Farmers' Review. *b.* Mineral, Ill., Mar. 4, 1857; *s.* S. L. and Philena (Covell) P.; reared on farm; *m.* Jessie M. Curtis, Mar. 16, 1881; *c.* Raymond C., Edgar M., Mabel, Inez, Carrie May, Helen P.

Peter, Alfred Meredith, head dept. chem., Ky. Exp. Sta., and prof. soil tech., Univ. Ky., Lexington, Ky.

Asst. chem., Ky. Geol. Survey, 1878–86; asst. chem. and chem., Ky. Exp. Sta., 1886—; supervising chem., Ky. Geol. Survey, 1904–12; adj. prof. chem., Univ. Ky (now Transylvania Univ.), 1878–9; adj. prof. chem. and nat. hist., Univ. Ky., 1880–1; acting dir., Ky. Exp. Sta., Aug.-Oct. 1912, Jan.–Feb. 1915, 1916–7. Fellow A. A. A. S.; sec. Ky. Acad. Sci., 1916—. Ex-officio mem., State Bd. Agr., State Bd. For., State Live-Stock Sanitary Bd. of Ky. *b.* Lexington, Ky., May 25, 1857; *s.* Robt. and Frances (Dallam) P.; reared in town and on farm; *m.* Mary Breckenridge McCauley, Sept. 27, 1887. B.S., Univ. Ky., 1880; M.S., 1885; Sc.D., 1913. Alpha Chi Sigma.

Peters, Charles Adams, prof. inorganic and soil chem., Mass. Agr. Coll., Amherst, Mass.

Prof. chem., Univ. Ida., 1901–8; exchange teach., Friedrichs Werdersche Oberrealschule, Berlin, 1909–10. *b.* Worcester, Mass., June 29, 1875; *s.* John Lovett and Mary Francis (Eddy) P.; reared on farm; *m.* Mary Dame Kitredge, June 29, 1905; *c.* Andrew, Lovett, Chas. A. Jr. B.S., Mass. Agr. Coll., 1897; Ph.D., Yale Univ., 1901. Alpha Sigma Phi.

Peters, William A., co. agrl. agt., Glencoe, Minn.

Agrst., high-sch., Hector, Minn., 1917–8. *b.* La Crosse, Wis., Aug. 31, 1884; *s.* John and Adelheide P.; reared on farm; *m.* Tessie F. Millan, Aug. 23, 1916; *c.* Lucile Catherine. B.S., Univ. Minn., 1917. Alpha Zeta.

Peterson, Elmer George, pres. Utah Agr. Coll., Logan, Utah.

Instr. bact., Cornell Univ., 1910–1; prof. bact., Ore. Agr. Coll., and bact. Exp. Sta., 1911–2; bact. and dir. ext. div., Utah Agr. Coll., 1912–6; pres., 1916—. *b.* Plain City, Utah, Aug. 26, 1882; *s.* Augustus and Agnes (Geddes) P.; reared on farm; *m.* Phebe Nebeker, 1913; *c.* one. B.S., Utah Agr. Coll., 1904; A.M., Cornell Univ., 1909; Ph.D., 1911.

Peterson, Peter Powell, prof. soils, Univ. Ida., Moscow, Ida.

Instr. soils, Univ. Wis., 1909–11; asst. prof., 1911–2; present position, 1912—. *b.* Hooper, Utah, Sept. 14, 1874; *s.* P. B. and Ann (Powell) P.; reared on farm; *m.* Hazel Parkinson, May 20, 1903; *c.* Kirma, Ottis, Claire. B.S., Brigham Young Univ., 1905; Ph.D., Univ. Chicago, 1909. Sigma Xi.

Peterson, R. Maynard, invest., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Instr. agr., high-sch., Red Wing, Minn., 2 yrs. *b.* Olivia, Minn., May 23, 1888; *s.* John E. W. and Eliza G. (Lindberg) P.; reared on farm; *m.* Irene Vernice Warner, Aug. 3, 1909; *c.* Elaine Winifred, Harland, Wm., Lois Adele. B.S.A., Univ. Minn., 1914.

Peterson, William Harold, assoc. prof. agrl. chem., Univ. Wis., Madison, Wis.

Asst. chem., Columbia Univ., summer 1909–10; asst. agrl. chem., Univ. Wis., 1909–10; instr., 1910–4; asst. prof., 1914–8; assoc. prof., 1918—. *b.* New Paltz, N. Y., Nov. 14, 1880; *s.* P. John and Clara (Saterlofve) P.; reared on farm; *m.* Mary Katherine White, Aug. 7, 1913. B.S., Wesleyan Univ., Middletown, Conn., 1907; M.A., Columbia Univ., 1909; Ph.D., Univ. Wis., 1913. Phi Beta Kappa.

Petry, Edward Jacob, asst. prof. agrl. bot., Purdue Univ., LaFayette, Ind.

Asst. to instr., Cornell Univ., 1907–10; instr. agron., Purdue Univ., 1911–6; asst. prof. agrl. bot., 1916—. *b.* Gnadenhutten, O., June 24, 1880; *s.* Jacob and Anna C. (Schmitt) P.; reared on farm; *m.* Dora M. Plueddemann, Sept., 1909. B.S.A., Ohio State Univ., 1907; M.Sc., Purdue Univ., 1914.

Pettee, Charles Holmes, dean N. H. A.&M. Coll., Durham, N. H.

Instr., Thayer Sch. Civil Engin. and N. H. Coll., 1876–7; prof. math., 1877–1916; dean, 1888—. *b.* Manchester, N. H., Feb. 2, 1853; *s.* Horace and Elizabeth Fairbanks (Wilson) P.; reared in city and country; *m.* Luella E. Swett, Jul. 24, 1877; *c.* Alvena, Horace J., Sarah E., Chas. S. A.B., Dartmouth Coll., 1874; C.E., 1876; A.M., 1877; LL.D., N. H. A.&M. Coll., 1913. Kappa Kappa Kappa.

Pettit, Rufus Hiram, prof. ent., Mich. Agr. Coll., and ent. Exp. Sta., E. Lansing, Mich.

Asst. state ent. of Minn., 1895–6; asst. ent., Mich. Exp. Sta., 1897–1906; instr. zool., Mich. Agr. Coll., 1897–1906; present position, 1906—. Fellow A. A. A. S. Collaborator, U. S. Bur. Ent. *b.* Baldwinsville, N. Y., Jan. 11, 1869; *s.* Rufus D. and Elvira C. (McHuron) P.; reared in village; *m.* Jessie A. Treat, May, 1895; *c.* Jessie A., Dorothy C. B.S.A., Cornell Univ., 1895. Sigma Xi; Alpha Zeta.

Pew, William Harper, prof. an. husb., Ia. State Coll., Ames, Ia.

Asst. prof. agr., N. H. A.&M. Coll., 1907–9; assoc. prof. an. husb., Ia. State Coll., 1909–12; prof. and chief Exp. Sta., 1912—. *b.* Dodgeville, O., Oct. 31, 1883; *s.* John O. and Lina (Harper) P.; reared in town and on farm; *m.* Nellie F. Whitehead, June 8, 1910; *c.* Dorothy Margaret. B.S., Ia. State Coll., 1907. Delta Upsilon; Alpha Zeta; Phi Kappa Phi; Gamma Sigma Delta.

Pfaender, Max, hort., Northern Great Plains Field Sta., Mandan, N. D.

Nurseryman, New Ulm, Minn., 5 yrs. *b.* St. Paul, Minn., June 26, 1885; *s.* Wm. and Emily (Kiesling) P.; reared in town; *m.* Hilda Peuser, June 13, 1911 (d. 1915); 2d, Althea Drenkel, June 20, 1917; *c.* Robt., Elizabeth, Max Geo. B.S.A., Univ. Minn., 1907. Alpha Zeta.

Phelan, John, prof. rural sociol., Mass. Agr. Coll., Amherst, Mass.

Asst. econ., Univ. Mich., 1910; asst. dir., rural sch. dept., Western State Normal Sch., Kalamazoo, 1910–1; dir. rural sch. dept., State Normal Sch., Stevens Point, Wis., 1912–5; prof. rural sociol., Mass. Agr. Coll., 1915—; dir. short-courses, 1918—. *Auth.:* Elements of Rural Economics and Rural Sociology for Rural School Teachers, 1915. *b.* Homer, Mich., Sept. 19, 1879; *s.* John and Alice M. (Walshe) P.; reared on farm; *m.* Ida M. Densmore, Jan. 1, 1913; *c.* John Densmore. A.B., Univ. Mich., 1910; A.M., 1912.

Phelps, Charles Shepherd, co. agrl. agt., Saratoga Springs, N. Y.

Prof. agr. and vice-dir. Exp. Sta., Conn. Agr. Coll., 1888–1902; manag. dairy farm, 1903–9; market-gardener, 1910–2; co. agt., 1913—. *b.* Florence, Mass., Dec. 5, 1861; *s.* Soloman and Nancy (Leonard) P.; reared on farm; *m.* Orra Almira Parker, June 10, 1891; *c.* Francis, Lawrence, Orra, Leon, Phoebe, Katharine, Bessie. B.Sc., Mass. Agr. Coll., 1885. Kappa Sigma.

Philips, Allen Griffith, prof. poultry husb., Purdue Univ., LaFayette, Ind.

Asst. poultry husb., Kans. State Agr. Coll., 1908–10; instr. poultry, Purdue Univ., 1910–2; asst. prof., 1912–4; assoc. prof., 1914–6; prof. and chief, 1916—. Sec. Ind. State Poultry Assoc.; pres. Am. Assoc. Instrs. and Invests. in Poultry Husb.; vice-pres. Nat. War Emergency Poultry Fed.; mem. exec. bd., Ind. Egg and Poultry Assoc. Lieut. Field Artillery, Ind. Nat. Guard, 1914—. *b.*

Westchester, Pa., Jan. 5, 1886; *s.* Horace M. and Hanna Mary (Griffith) P.; reared in city; *m.* Grace H. Woodward, Apr. 1, 1911; *c.* Helen Mary, Paul Woodward, Marion Elizabeth. B.S., Kans. State Agr. Coll., 1907; grad. student, Cornell Univ., 1907–8.

Phillips, Everett Franklin, apiculturist, Bur. Ent., U. S. Dept. Agr., Washington, D. C.

Fellow A. A. A. S. Traveled in Hawaii and Porto Rico to study beekeeping conditions. *Auth.:* Beekeeping, 1915. *b.* Hannibal, O., Nov. 14, 1878; *s.* Taylor F. and Belle (Hofer) P.; reared in small town; *m.* Mary Hibbs Geisler, Oct. 27, 1906; *c.* E. F. Jr., Wm. Taylor, Howard Geisler. B.A., Allegheny Coll., 1899; Ph.D., Univ. Penn., 1904. Phi Beta Kappa; Sigma Xi; Phi Delta Theta.

Phillips, Frank R., co. agrl. agt., Rusk, Tex.

Prof. agr., state sch., La., 2 yrs.; with U. S. Dept. Agr., 2 yrs. *b.* Watertown, Tenn., 1887; *s.* J. T. and Bell (Shields) P.; reared on farm. B.S., Tex. A. & M. Coll., 1914.

Phillips, John Lloyd, fruit-grower and farmer, Linden, Va.

Asst. state ent., Va., 1900–3; state ent., 1903–10. Fellow A. A. A. S. *b.* Accomac Co., Va., Dec. 30, 1875; *s.* W. J. and Maggie A. (Savage) P.; reared on farm; *m.* Marie A. Ernst, Sept. 16, 1905; *c.* J. L. Jr., Agnes E., Geo. E., W. J., Margaret E. B.S., Va. Poly. Inst., 1897; M.S., 1900.

Phillips, Thomas Guthrie, asst. prof. agrl. chem. and soils, Ohio State Univ., Columbus, O.

Instr. agrl. chem., Ohio State Univ., 1912–5; asst. prof., 1915—. *b.* W. Derby, Vt., Nov. 18, 1887; *s.* Jeremiah and Altie F. (Wright) P.; reared on farm and in town. B.S.A., Ohio State Univ., 1912; M.Sc., 1913; Ph.D., Univ. Chicago, 1918. Sigma Xi; Phi Lambda Upsilon; Alpha Zeta; Gamma Alpha.

Pickett, Bethel Stewart, prof. pom., Univ. Ill., Urbana, Ill.

Sec. Ont. Agr. Coll., 1902–5; instr. pom., Univ. Ill., 1906–8; prof. hort., N. H. A.&M. Coll., 1908–12; present position, 1912—. Sec. N. H. Fruit Growers' Assoc., 1910–2; organizer and sec. N. H. Potato Growers' Assoc., 1911; vice-pres. New England Fruit Show, for N. H., 1911–2; chm. com. on undergraduate courses, Am. Soc. for Hort. Sci., 1917; supt. exhibits, Ill. Apple Show, 1918. *b.* Tillsonburg, Ont., June 4, 1882 (naturalized 1905); reared in country; *m.* Bertha Gay Beamer, Dec. 11, 1907; *c.* Barzillai Stewart, Llewellyn Elmer, Arthur David, Ellen Gay. B.S.A., Toronto Univ., 1904; M.S., Univ. Ill., 1906. Sigma Xi.

Pierce, Fred D., sec. Rocky Mt. distr., Y. M. C. A., Denver, Colo.

b. Eureka, Ill., Aug. 10, 1878; *s.* Wm. A. and Emma J. (Lewis) P.; reared in country; *m.* Gertrude M. Thompson, Apr. 28, 1906; *c.* Marion, Paul, Margaret, Frances, Jean, Janet. Student Eureka Coll., 1 yr.

Piggott, Walter Joseph Jr., co. agrl. agt., Rockport, Ind.

b. Irvington, Ky., Apr. 11, 1892; *s.* W. J. and Clara (Jolly) P.; reared on farm; *m.* Francis Dorothy Rowland, June 11, 1918. B.S.Agr., Univ. Ky., 1915.

Pillsbury, Joshua Plummer, prof. hort., N. C. A.&M. Coll. and Exp. Sta., W. Raleigh, N. C.

Head gardener, Penn. State Coll., 1895–8; asst. hort., 1898–1910; asst. prof., 1910–1; present position, 1911—. *b.* Buena Vista, O., Dec. 7, 1873; *s.* J. P. and Harriet M. (Ross) P.; reared in country; *m.* Charlotte Dunford, Oct. 17, 1895 (d. Jan., 1916); 2d, Mrs. Gertrude Brown, June 4, 1918; *c.* Ross Dunford, Dorothy May. B.S., Penn. State Coll., 1910. Alpha Zeta; Phi Kappa Phi.

Pinchot, Gifford, for., Milford, Pike Co., Pa.

Mem. Nat. For. Comn., 1896; for. and chief U. S. For. Serv., U. S. Dept. Agr., 1898–1910; chm. Nat. Conservation Comn., 1908–9; mem. Roosevelt Country Life Comn., 1908–9; pres. Nat. Conservation Assoc., 1910—; prof. for., Yale Univ., 1903—. Fellow A. A. A. S. *Auth.:* (with Graves) The White Pine, 1896; The Adirondack Spruce, 1898; The Fight for Conservation, 1909; (with C. O. Gill) The Country Church, 1913. *b.* Simsbury, Conn., Aug. 11, 1865; *s.* James W. and Mary (Eno)P. A.B., Yale Univ., 1889;

A.M., 1901, Princeton Univ., 1904; Sc.D., Mich. Agr. Coll., 1907; LL.D., McGill Univ., 1909.

Pincus, Joseph William, ed. and agrl. organizer, 174 Second Ave., New York City.

Instr. agr. and supt. farm and dairy dept., Baron de Hirsh Agr. Sch., Woodbine, N. J., 1898–1908; sec. Fed. of Jewish Farmers of Am. *Ed.*, The Jewish Farmer. *b.* Berdiansk, Russia, Aug. 3, 1876 (naturalized 1896); *s.* Alexander G. and Zinaida (Podolsky) P.; reared on farm; *m.* Elizabeth Florence Lipman, June 29, 1902; *c.* Gregory Goodwin, Bernard M., Leopold L., Maurice Hirsch, Sophia, Alexis Geo. B.Agr., Conn. Agr. Coll., 1898.

Piper, Charles Vancouver, agrostologist, U. S. Dept. Agr., Washington, D. C.

Prof. bot. and zool., Wash. State Coll., 1892–1903; agrostologist in chg. forage crop invests., U. S. Dept. Agr., 1903—. Pres. Am. Soc. Agron., 1903–4; pres. Washington Bot. Soc., 1907–8. Traveled in Japan, China, India, Java, Egypt, Philippines, Europe, Alaska. *Auth.:* Flora of Washington, 1906; Flora of Palouse Region, 1901; Flora of Southeast Washington, 1914; Flora of Northwest Coast, 1915; Forage Plants and Their Culture, 1915; Turf for Golf Courses, 1917. Consulting agrl. ed., McGraw-Hill Book Co. *b.* Victoria, B. C., June 16, 1867; *s.* Andrew Wm. and Minna (Hausman) P.; *m.* Laura Maude Hungate, Sept. 15, 1897. B.S., Univ. Wash., 1885; M.S., 1892; M.S., Harvard Univ., 1900. Phi Beta Kappa; Sigma Xi.

Platts, Catharine Norton, in chg. home econ. ext. and state home dem. leaders, Univ. Me., Orono, Me.

Teach. home econ. and math., high-sch., Walpole, N. H., 1911–2; teach. home econ., Northfield Sem., 1912–3; in chg. home econ. dept., 1913–5; present position, 1915—. *b.* Holbrook, Mass., Apr. 16, 1887; *d.* Howard and Annie M. (Thayer) P.; reared in town. B.S., Simmons Coll., 1911.

Plumb, Charles Sumner, prof. an. husb., Ohio State Univ., Columbus, O.

Asst. ed. Rural New-Yorker, 1883–4; first asst., N. Y. Agr. Exp. Sta., Geneva, 1884–7; prof. agr., Univ. Tenn. and asst. dir. Exp. Sta., 1887–90; vice-dir. Ind. Exp. Sta., 1890–1; dir., 1891–1902; prof. agrl. sci., Purdue Univ., 1890–3; prof. an. husb. and dairying, 1893–1902; present position, 1902—. Sec.-treas. Am. Kerry and Dexter Cattle Club. Traveled in Europe. *Auth.:* Biographical Directory of American Agricultural Scientists, 1889; Indian Corn Culture, 1895; Little Sketches Famous Beef Cattle, 1904; Types and Breeds of Farm Animals, 1906; A Partial Index to Animal Husbandry Literature, 1911; Beginnings in Animal Husbandry, 1914; Judging Farm Animals, 1916. *Ed.* and publisher, Agricultural Science, 1887–91. *b.* Westfield, Mass., Apr. 21, 1860; *s.* David H. and Helen M. (Wallace) P.; reared in town; *m.* Helen P. Gladwin, Oct. 14, 1886; *c.* Helen G., Winthrop G. B.Sc., Mass. Agr. Coll., 1882. Sigma Xi; Alpha Zeta.

Plummer, James Kemp, soil chem., N. C. Exp. Sta., Raleigh, N. C.

Asst. chem., N. C. Exp. Sta., 1908–9; asst. chem., Cornell Univ., 1910–1; present position, 1911—. *b.* Middlebury, N. C., Sept. 20, 1886; *s.* Jas. K. and Mary B. (Henderson) P.; reared on farm; *m.* Lucy Haywood, June 12, 1912; *c.* Emily Haywood. B.S., N. C. A.&M. Coll., 1907; M.S., 1909; M.A., Cornell Univ., 1911; Ph.D., 1915. Sigma Xi.

Poe, Clarence, ed. Progressive Farmer and pres. Progressive Farming Co., Raleigh, N. C.

Mem. State Bd. Agr.; exec. com., State Food Administration; exec. com., Nat. Conference Marketing and Farm Credits and N. A. O. S. Circumnavigated globe, 1910–1, studying economic and social problems; visited Ireland, Denmark, 1912, studying rural co-operation. Lecturer on rural problems. *Auth.:* A Southerner in Europe, 1908; Where Half the World is Waking Up, 1911; Life and Speeches of Charles B. Aycock, 1912; How Farmers Co-operate and Double Profits, 1915. *b.* Chatham Co., N. C., Jan. 10, 1881; *s.* Wm. B. and Susan (Dismukes) P.; reared on farm; *m.* Alice Aycock, 1912; *c.* Chas. Aycock, Wm. D., Jean Shepperd. Lit.D., Wake Forest Coll., 1914.

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Pollard, Ray Ford, co. agrl. agt., Cobleskill, N. Y.

Instr. farm manag., Cornell Univ.,

winter 1915–6; agrl. agt., Schoharie Co., 1916—. *b.* Nanticoke, N. Y., Jan. 8, 1887; *s.* B. M. and Theda E. (Ford) P.; reared on farm. B.S. Cornell Univ., 1915.

Pontius, Byron Ernest, asst. prof. an. husb., Mass. Agr. Coll., Amherst, Mass.
Head dept. an. husb., N. Y. State Sch. Agr., Alfred, 1914–7; present position, 1917—. *b.* Liberty Center, O., Feb. 10, 1888; *s.* Israel and Ella E. (Frankforther) P.; reared on farm; *m.* Carrie Elizabeth Clifton, Aug. 16, 1916. B.Sc., Ohio State Univ., 1914.

Ponton, Joseph Noe, prof. physics and agrl. engin., Oka Agrl. Inst., Vandreuil, Que.
Distr. rep., Ont. Dept. Agr., summers, 1913–5; present position, 1915—. Farm manag., 1917—. Rep. Que., Eastern Canada Live-Stock Union. *b.* Marie Ville, Que., Dec. 8, 1885; *s.* Noe and Emelie (Dandurand) P.; reared on farm. B.A., Laval Univ., Montreal, 1912; B.S.A., Ont. Agr. Coll., 1915.

Pope, Perly Putnam, co. agrl. agt., farmer and pedigree live-stock breeder, St. Johns, Mich.
b. Bowling Green, O., Apr. 9, 1883; *s.* Delos A. and Laura E (Loomis) P.; reared in country; *m.* Bertha B. Hannah, Nov. 24, 1909; *c.* Lucy Belle. Student Otterbein Univ.

Popenoe, Hubert Lowell, co. agrl. agt., Emporia, Kans.
Dir. agr., state high-sch., Alexandria, Minn., 1912–4; agrl. agt., Lyon Co., Kans., 1914—. *b.* Manhattan, Kans., Feb. 11, 1886; *s.* Edwin A. and Carrie G. (Holcomb) P.; reared on farm; *m.* Anna F. Whiting, May 18, 1910; *c.* Georgia Isabel, Hubert L. Jr., Anna Frances. B.S., Kans. State Agr. Coll., 1909. Gamma Sigma Delta.

Popenoe, Wilson, agrl. explorer, Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.
Explorations in India, Turkey, Algeria, 1912–3; Brazil, 1914–5; Guatemela, 1915–7; Mexico, 1918. *b.* Topeka, Kans., Mar. 9, 1892; *s.* F. O. and Marion A. (Bowman) P.; reared in country. Student Pomona Coll.

Posey, W. A., co. agrl. agt., Spencer, Ia.
b. Bushnell, Ill., 1882; *s.* John A. and E. J. P.; reared on farm.

Potter, Albert Franklin, assoc. for., For. Serv., U. S. Dept. Agr., Washington, D. C.
Insp. Territorial Live-Stock Sanitary Comn., Ariz., 1892–4; treas. Apache Co., 1895–6; sec. Ariz. Wool Growers' Assoc., 1898–1900; expert on grazing, U. S. For. Serv., 1901–5; chg. grazing on nat. forests, 1905–9; assoc. for., 1910—. *b.* Amador Co., Calif., Nov. 14, 1859; *s.* Abiathar Fales and Caroline (Willis) P.

Potter, Ermine Lawrence, prof. an. husb., Ore. Agr. Coll., Corvallis, Ore.
Instr. an. husb., Ore. Agr. Coll., 1908–10; asst. prof., 1910–2; prof., 1912—; head dept., 1913—. Sec. Northwest Shorthorn Assoc. *Ed.*, Western Live-Stock Management, 1917. *b.* Turney, Mo., Apr. 13, 1884; *s.* Jas. A. and Maggie (Johnson) P.; reared on farm; *m.* Mark Kirk, Aug. 16, 1911. B.S., Mont. State Coll., 1906; B.S.A., Ia. State Coll., 1908. Alpha Zeta; Gamma Sigma Delta.

Potter, Ralph Sydney, assoc. prof. soils and chief soil chem., Exp. Sta., Ia. State Coll., Ames, Ia.
Research asst., Univ. Ill., 1910–3; present position, 1913—. *b.* Fairbury, Ill., Mar. 2, 1888; *s.* P. M. and Elizabeth (Van Arsdale) P.; reared on farm and in town; *m.* Mabel Bebb, Dec. 25, 1913; *c.* Dorothy, Janet. A.B., Lake Forest Coll., 1909; M.S., Univ. Ill., 1911; Ph.D., 1913. Sigma Xi; Phi Lambda Upsilon; Phi Kappa Phi; Alpha Chi Sigma.

Potts, Arthur Tillman, assoc. prof. hort., Tex. A. & M. Coll., College Station, Tex.
Deputy state feed and fert. insp., 1907–8; supt. Agr. Exp. Sta., Beeville, Tex., 1908–12; present position, 1912—. *b.* Weatherford, Tex., Mar. 16, 1883; *s.* Chas. B. and Elizabeth M. (Shirley) P.; reared on farm and in small town; *m.* Francis Opal Poland, June 2, 1910; *c.* Letha Marie. B.S., Tex. A.&M. Coll., 1907; M.Sc., Univ. Cal., 1916; M.S.A., Tex. A.&M. Coll., 1917.

Potts, Roy C., specialist in dairy marketing, Bur. Markets, U. S. Dept. Agr., Washington, D. C.
Prof. dairying, Okla. A.&M. Coll.,

1906–15; present position, 1915—. *Auth.:* Dairy Laboratory Outlines, 1912. Dairy ed., Okla. Farmer-Stockman, 1913–5. *b.* Washington, Mich., May 21, 1881; *s.* John C. and Mattie (Hart) P.; reared on farm; *m.* Helene M. Mittendorf, Feb. 16, 1910. B.S., Mich. Agr. Coll., 1906. Alpha Zeta.

Powell, Edwin Chace, ed. Farm and Home, Springfield, Mass.

Sec. E. N. Y. Hort. Soc., 1898. *Auth.:* Street and Shade Trees, 1893; Country Roads, 1893; Barn Plans and Outbuildings, 1903; Making Poultry Pay, 1907. *Asst. ed.,* New England Homestead, 1890–2; asst. ed., American Gardening, 1893; assoc. ed., Orange Judd weeklies, 1900–2; ed. Farm and Home, 1902—. *b.* Ghent, N. Y., Mar. 3, 1870; *s.* Geo. T. and Marcia (Chace) P.; reared on farm; *m.* Grace J. Sackett, Jul. 16, 1890; *c.* Beatrice, Edith M. Special student, Cornell Univ., 1889–90.

Powell, George Harold, general manag. Calif. Fruit-Growers' Exchange, Los Angeles, Calif.

Hort. and ent., Del. Exp. Sta., 1896–1901; asst. pom., U. S. Dept. Agr., 1901–4; pom. in chg. fruit transportation and storage invests., 1904–9; asst. chief, Bur. Plant Ind., 1909–11; present position, 1911—; chief div. perishable foods, U. S. Food Administration, 1917—. Del. from U. S. to Inter. Assoc. of Refrigerating Industries, Paris, 1908. *Auth.:* Co-operation in Agriculture, 1913. *b.* Ghent, N. Y., Feb, 8, 1872; *s.* Geo. T. and Marcia (Chace) P.; reared on farm; *m.* Gertrude E. Clark, Jul. 1, 1896; *c.* H. Clark, Geo. T., Lawrence C. B.S.A., Cornell Univ., 1895; M.S.A., 1896. Sigma Xi; Kappa Sigma.

Powell, George Townsend, fruit-grower and farmer, Ghent, N. Y.

Princ. and dir. Sch. Practical Agr. and Hort., Briar Cliff Manor, N. Y., 1901–3. Pres. Hort. Soc. of N. Y., 5 yrs. Special attention to propagation of fruit trees by bud selection. *b.* Clinton, N. Y., Mar. 30, 1843; *s.* Townsend and Catharine (Macy) P.; reared on farm; *m.* Marcia Chace, Dec. 2, 1868; *c.* Edwin Chace, Geo. Harold, Mabel Alger, Alger Wheeler. Student Claversack Coll., 2 yrs.

Powers, Homer Patrick, co. agrl. agt., Socorro, N. Mex.

Teach. agrl. chem., N. Mex. A.&M. Coll., 1 yr. *b.* Pecos, Tex., Apr. 4, 1893; *s.* Homer and Josephine (Philips) P.; reared on ranch; *m.* Celia Marrin. B.S.A., N. Mex. A.&M. Coll., 1916. Alpha Pi Alpha.

Powers, Wilbur Louis, prof. soils, Ore. Agr. Coll., Corvallis, Ore.

Instr. agron., Ore. Agr. Coll., 1909–12; asst. prof., 1912; assoc. prof., 1912–5; prof. drainage and irrig., 1916–8; prof. soils, 1918—. Sec. Ore. Drainage Assoc. *Auth.:* Irrigation Practice, 1912. *b.* Tiskilwa, Ill., Mar. 5, 1887; *s.* John and Eliza A. (Partridge) P.; reared on farm; *m.* Mabel N. Hays, Sept. 1, 1909; *c.* Myron N. B.S.A., N. Mex. A.&M. Coll., 1908; M.S., 1909.

Prange, Nettie May Gifford, crop specialist, Jacksonville, Fla.

Gardener, Indian River, Fla., 1899–1903; grove owner, Indian River, 1903–17. *Auth.:* Citrus Culture for Profit, 1911; Control of Insects and Diseases in Grove, Garden and Field, 1912; Key to Success, 1913. *b.* Royalton, Vt., Sept. 13, 1867; *d.* Henry T. and Sarah Jane (Woodworth) Gifford; reared on farm; *m.* Frederick C. Prange, Oct. 10, 1893; *c.* Carl A.

Pratt, Burr Bartram, superv. insp., Food Products Insp. Serv., Bur. Markets, U. S. Dept. Agr., Chicago, Ill.

Sci. asst. in fruit handling, transportation and storage invests., Bur. Plant Ind., 1909–13; asst. prof. pom., Univ. Calif., 1913–4; field manag., Calif. Fruit Growers' Exchange, Los Angeles, 1914–7; present position, 1917—. *b.* Benton Harbor, Mich., May 12, 1886; *s.* Wilmer M. and Nellie M. (Bartram) P.; reared on farm; *m.* Louise Graham Kelley, Nov. 26, 1912; *c.* Harlan Kelley, Robert Marshall. B.S., Mich. Agr. Coll., 1909. Alpha Zeta.

Prentice, Burr Norman, asst. prof. for., Purdue Univ., LaFayette, Ind.

Instr. for., Purdue Univ., 1914–7; asst. prof., 1917—. *b.* Berkshire, N. Y., Aug. 1, 1888; *s.* Norman A. and Grace I. (Howland) P.; reared in village; *m.* Ruth G. Clark, Jan. 1, 1915; *c.* Lucia R., June Louise. B.A., Syracuse Univ., 1912; M.F., N. Y. State Coll. For., Syracuse, 1913. Sigma Phi Epsilon.

Preston, Charles Fairlamb, asst. state leader co. agts., Penn. State Coll., State College, Pa.

Asst. hort., Green Ridge Valley, Orchard Co., 1911–3; agrl. agt., Chester Co., Pa., 1913–7; present position, 1917—. *b.* Tayloria, Pa., June 30, 1888; *s.* Forest and Alice (Fairlamb) P.; reared on farm; *m.* Bessie J. Hoffman, Sept. 9, 1914; *c.* Dora Levisee, Forest, Mildred. B.S., Penn. State Coll., 1911. Delta Upsilon, Alpha Gamma Rho.

Prettyman, Hugh W., co. agrl. agt., Williamson, W. Va.

Agrl. agt., Mingo Co., W. Va., 1917–8; agt. Mineral Co., 1918—. *b.* Sistersville, W. Va., Aug. 1, 1892; *s.* Rufus Peter and Sara Cathryn (Bookman) P.; reared on farm; *m.* Era Brake, June 16, 1917. B.S.A., W. Va. Univ., 1917.

Price, Earl, co. agrl. agt., Harrisburg, Ill.

Dean agr., Valparaiso Univ., 1914–7. *b.* Topeka, Ind., Nov. 29, 1883; *s.* John and Emmeline (Barnes) P.; reared on farm; *m.* Leta Kline, Aug. 20, 1910; *c.* John, Mary, James, Virginia. A.B., Wabash Coll., 1909; B.S., Purdue Univ., 1914.

Price, Harvey Lee, dean agrl. dept. and prof. hort., Va. Poly. Inst., Blacksburg, Va.

Instr. hort., Va. Poly Inst., 1900–3; prof. hort. and hort. Exp. Sta., 1903—; dean agrl. dept., 1908—. *b.* Price's Fork, Va., Mar. 18, 1874; *s.* Wm. Taylor and Margaret Ellen (Hawley) P.; reared on farm; *m.* Daisy Conway, Sept. 21, 1904; *c.* W. B. Conway, Harvey L. Jr., Mary Luster, Jule. B.S., Va. Poly. Inst., 1898; M.S., 1900.

Price, Homer Charles, agrst., Newark, O.

Asst. hort., Ohio State Univ., 1899–1901; prof. hort., Ia. State Coll., 1901–3; dean Coll. Agr., Ohio State Univ., 1903–15. Mem. Agrl. Comn. of O., 1913–5; mem. O. State Bd. Agr., 1917—; chm. Fed. Milk Comn., 1918—. Traveled in Europe, 1911–2. *b.* Newark, O., Feb. 13, 1875; *s.* Thos. D. and Sarah Jane (Jones) P.; reared on farm; *m.* Gertrude Harlan, June 18, 1903; *c.* Thos. Harlan, Mary Elizabeth. B.Sc., Ohio State Univ., 1897; M.S.A., Cornell Univ., 1899. Sigma Xi; Alpha Zeta.

Price, James Clarence Conway, assoc. prof. hort., Ala. Poly. Inst., Auburn, Ala.

Instr. mech. arts, Va. Poly. Inst., 1904–7; insp., Va. Crop Pest Comn., 1907–9; instr. hort., Ala. Poly. Inst., 1909–13; assoc. prof., 1913—. Sec.-treas. Ala. State Hort. Soc. *b.* Blacksburg, Va., Mar. 19, 1881; *s.* James Crockett and Mary (Christiana) P.; reared on farm; *m.* Lulu Grace Coley, Oct. 28, 1908; *c.* Fred LeRoy, James Wm. B.S., Va. Poly. Inst., 1908.

Price, James Newton, co. agrl. agt., Yakima, Wash.

Asst. dairying, Univ. Mo., 1905–6; head dairy dept., Univ. Tenn., 1906–8; farmer, Trenton, Mo., 1908–11; Cabinet, Ida., 1911–4; ext. specialist dairying, Wash. State Coll., 1914–7. First pres. Mo. Corn Growers' Assoc. *b.* Grundy Co., Mo., Dec. 26, 1879; *s.* John W. and Mary Frances (Reynolds) P.; reared on farm; *m.* Cora Matheny, June 18, 1905; *c.* Frances Ellen, Katharine Elizabeth, Marian Esther. B.S.A., Univ. Mo., 1905.

Price, Lew Mar, co. agrl. agt., Price, Utah.

b. Utah, May 19, 1893; *s.* Wm. V. and Letitia J. (White) P.; reared on farm. B.S., Utah Agr. Coll., 1917. Phi Kappa Iota.

Price, Walter Allen, asst. prof. ent., Purdue Univ., LaFayette, Ind.

Lab. asst., Ohio State Univ., 1912–3; grad. asst., 1913–4; lab. asst., Purdue Univ., 1914–5; instr., 1915–7; asst. prof. ent., 1917—. *b.* Columbus, O., Feb. 25, 1887; *s.* Chas. W. and Charlotte (Allen) P.; reared on farm. B.S.A., Ohio State Univ., 1913; M.S., 1916.

Pridmore, James C., agron., Southern Fertilizer Assoc., Atlanta, Ga.

Assoc. prof. agron., Univ. Tenn., 1911–7; present position, 1917—. *b.* Gaffney, S. C., Mar. 3, 1885; *s.* Samuel G. and Amanda E. (Byars) P.; reared on farm; *m.* Helen Hortense Sharp, Dec. 26, 1911. B.S., Clemson Agr. Coll., 1909; M.S., Univ. Wis., 1911.

Prince, Ford Smoot, co. agrl. agt., Xenia, O.

Instr. soils, Mich. Agr. Coll., 1913–4; asst. prof. agron., N. H. A.&M. Coll., 1914–8. *b.* Conover, O., Nov. 14, 1887; *s.* W. H. and Eva (Smoot) P.; reared on farm; *m.* Alice Fletcher, Dec. 27, 1917.

B.S., Univ. Ill., 1913. Beta Theta Pi; Alpha Gamma Rho.

Prucha, Martin John, asst. prof. dairy bact. and asst. chief in Exp. Sta., Univ. Ill., Urbana, Ill.

Asst. bact., N. Y. Agr. Exp. Sta., Geneva, 1903–7; assoc. bact., 1907–10; fellow in agr., Cornell Univ., 1910–2; instr. plant physiology, 1912–3; asst. prof., 1913–4; present position, 1914—. *b.* Bohemia, Nov. 11, 1874 (naturalized 1909); *s.* John and Anna P.; reared in town; *m.* Elizabeth Gertrude Catchpole, 1907; *c.* Arnold Abbott, Marjorie Grayston. Ph.B., Wesleyan Univ., 1903; M.S., 1908; Ph.D., Cornell Univ., 1913. Sigma Xi; Delta Tau Delta.

Pugsley, Charles William, ed. The Nebraska Farmer, Lincoln, Neb.

Prof. Woodbine Normal Sch., 1899–1902; on farm, 1906–8; asst. prof. an. husb., Univ. Neb., 1908–9; head prof. agron. and farm manag., 1909–11; head prof. farm manag. and dir. ext., 1911–8; state leader co. agts. and boys' and girls' club work, U. S. Dept. Agr., 1912–8. State statistical agt., 1910–4. U. S. del. to Inter. Inst. of Agr., Rome, Italy, 1913; Neb. mem. Rural Credit Comn. to Europe. *Ed.*, Nebraska Farmer, 1918—. *b.* Woodbine, Ia., Aug. 12, 1878; *s.* Geo. and Alice Ida (Kennedy) P.; reared on farm; *m.* Lillian Florence Gibson, Feb. 22, 1906; *c.* Albert LeRoy. B.Sc., Univ. Neb., 1906. Alpha Zeta.

Putnam, Joseph Henry, co. agrl. agt., Greenfield, Mass.

Supt. hort. dept. and asst. hort. Exp. Sta., Mass. Agr. Coll., 1895–7. Pres. Conn. Pom. Soc.; vice-pres. Patrons' Exchange, Conn. *b.* Oxford, Mass., Jul. 24, 1872; *s.* Henry W. and Abbie E. (Locke) P.; reared on farm; *m.* Kate M. Taylor, Oct. 27, 1897; *c.* Ernest, Amy A., Ruth E., Catherine E., Richard E., Paul S. B.Sc., Mass. Agr. Coll., 1894. Kappa Sigma.

Putney, Fred Silver, prof. expl. dairy husb., Penn. State Coll., State College, Pa.

Asst. agron. and an. ind., Penn. State Coll., 1906–7; asst. an. nutr., Pa. Exp. Sta., 1907–8; asst. dean and dir. Coll. Agr., Univ. Mo., 1909–10; prof. an. husb., R. I. State Coll., 1910–3; asst. prof. dairy husb., Penn. State Coll., 1913–6; prof., 1916—. *b.* Hopkinton, N. H., Nov. 10, 1881; *s.* True Josiah and Ellen Wallingford (Ayers) P.; reared on farm; *m.* Bertha Julia Bond, Sept. 2, 1911; *c.* Ellen Ayers. B.S., N. H. A.&M. Coll., 1905; M.S., Penn. State Coll., 1908. Theta Chi; Alpha Zeta.

Q

Quaife, Elvin Lee, assoc. prof. an. husb., Ia. State Coll., Ames, Ia.

Instr. and asst. prof. an. husb., Mass. Agr. Coll., 1911–7; present position, 1917—. Traveled in Europe. *b.* Ionia, Ia., Nov. 29, 1887; *s.* Chas. Alfred and Alice E. (Day) Q.; reared on farm; *m.* Helen A. Marshall, Aug. 12, 1913; *c.* Margaret A., Virginia. B.S., Ia. State Coll., 1911. Alpha Zeta; Delta Sigma Rho.

Quaintance, Altus Lacy, ent. in chg. deciduous fruit insect invests., Bur. Ent., U. S. Dept. Agr., Washington, D. C.

Ent., Ala. Poly. Inst., 1894; Fla. Agr. Coll. and Exp. Sta., 1895–8; Ga. Exp. Sta., 1899–1901; Md. Agr. Coll. and Exp. Sta., state ent., 1901–3; with Bur. Ent., 1904—. Fellow A. A. A. S.; Ent. Soc. Am. Pres. Am. Assoc. Econ. Ent., 1904; pres. Ent. Soc. Washington, 1912; sec. Md. State Hort. Soc., 1902–3. *b.* New Sharon, Ia., Dec. 19, 1870; *s.* G. P. and Sarah Jane (Hughes) Q.; reared in small town; *m.* Helen May Yocum, Dec., 1895; *c.* L. C., H. W. B.S.A., Univ. Fla., 1893; M.Sc., Ala. Poly. Inst., 1894; D.Sc., 1915. Sigma Alpha Epsilon.

Quick, Herbert, mem. Fed. Farm Loan Bd., Washington, D. C.

Farmer in Ia., sch. teach. in Ia.; engaged in practice of law, Sioux City, Ia., 1890–1909; general manag. Neb. Clark Automatic Telephone Co. and Ia. Clark Automatic Telephone Co., 1902–6; ed. LaFollette's Weekly, Madison, Wis., 1908–9; ed. Farm and Fireside, 1909–16; on writing staff Saturday Evening Post and Country Gentleman, 1916; present position, 1916—. Mayor Sioux City, 1898–1900. *Auth.:* In the Fairyland of America, 1903; Aladdin & Co., 1904; Double Trouble, 1905; The Broken Lance, 1907; American Inland Waterways, 1909; Virginia of the Air Lanes, 1909; Yellowstone Nights, 1911; On Board the Good Ship Earth, 1913; The Brown Mouse, 1915; The Fairview Idea, 1918.

b. Steamboat Rock, Ia., Oct. 23, 1861; *s.* Martin and Margaret (Coleman) Q.; reared on farm; *m.* Ella D. Corey, Apr. 9, 1890.

Quick, William C., sci. asst. in pom. chg. northwestern storage invests., U. S. Dept. Agr., Box 1316, Yakima, Wash.
b. Saline Co., Ill., Aug. 29, 1888; *s.* Frank C. and Elizabeth (Reddick) Q.; reared on farm. B.S.A., Univ. Ark., 1914.

Quisenberry, James H., co. agrl. agt., Frederick Hall, Va.
b. Mineral, Va., Jul. 29, 1868; *s.* John S. and Charlotte A. (Bronaugh) Q.; reared on farm; *m.* Nettie L. Sims, May 11, 1898; *c.* Maxwell, Nellie A., Elsie H., J. Nuel. Studied Va. Poly. Inst.

Quist, John Sherman, co. agrl. agt., Denison, Ia.
b. Essex, Ia., Apr. 13, 1891; *s.* P. J. and Matilda (Johnson) Q.; reared on farm. B.S., Ia. State Coll., 1917.

R

Ragsdale, Arthur C., ext. asst. prof. dairy husb., Univ. Mo., Columbia, Mo.
Instr. an. husb., Rutgers Coll., N. J., 1913–5; instr. and asst, prof. dairy husb., W. Va. Univ., 1915–6; present position, 1916—. Sec. Mo. State Dairy Assoc. *b.* Aurora, Mo., Oct. 28, 1890; *s.* H. E. and Ida (Money) R.; reared in town and on farm. B.S.A., Univ. Mo., 1912. Alpha Zeta.

Rainbolt, Quince O., co. agrl. agt., Bloomington, Ind.
Farmer and live-stock breeder. *b.* Popcorn Creek Valley, Ind., Nov. 16, 1881; *s.* Calvin and Sarah E. (Byers) R.; reared on farm; *m.* Ruth Elizabeth Armstrong, Oct. 1, 1908; *c.* Richard A., Elizabeth.

Ralston, Glancy Sherman, field hort., Va. Poly. Inst., Blacksburg, Va.
Asst. hort., Ore. Agr. Coll., 1912–4; ext. hort., Va. Poly. Inst., 1914–7; field hort., 1917—. *b.* Slate Lick, Pa., Oct. 24, 1887; *s.* T. J. and Anna M. (Weaver) R.; reared on farm; *m.* Irene L. Pegg, Sept. 15, 1915; *c.* Robt. Allen. B.S., Colo. Agr. Coll., 1912; M.S., Ore. Agr. Coll., 1914. Alpha Zeta.

Ramsey, Frank Taylor, nurseryman, Austin, Tex.
Ex-pres. Tex. State Hort. Soc., Nut-Growers' Soc., State Nurserymen's Assoc. *b.* Burnet Co., Tex., June 15, 1861; *s.* A. M. and Ellen (Taylor) R.; reared on farm; *m.* Annabel Sinclair, Aug. 20, 1884; *c.* J. Murray, Mrs. R. V. Murray, Mrs. C. C. Taylor, Mrs. H. F. Nitchke.

Ramsey, Henry J., pom. in chg. handling and storage invests., Bur. Markets, U. S. Dept. Agr., Washington, D. C.
Asst., Univ. Wis., 1903–4; student asst., N. Y. Agr. Exp. Sta., Geneva, 1904–5; asst. plant path., Univ. Calif., 1905–8; asst. prof., 1908–9; pom., Bur. Plant Ind., 1909–17; present title, 1917—. *b.* Hamlin Co., S. D., Dec. 17, 1881; *s.* Chas. E. and Anna (Stordahl) R.; reared on farm and in town; *m.* Emily Florence Jenney, Oct. 28, 1911. B.S., S. D. State Coll., 1902; M.A., Univ. Minn., 1903. Sigma Xi.

Ramsower, Harry Clifford, prof. agrl. engin., Ohio State Univ., Columbus, O.
Asst. prof. agron., Ohio State Univ., 1908–13; prof. agrl. engin., 1913—. Sec.-treas. Am. Soc. Agrl. Engin., 1918—. *b.* Granville, O., Jan. 6, 1880; *s.* James N. and Katherine (Graves) R.; reared on farm; *m.* Helen W. Keller, June 9, 1909; *c.* Harry C. Jr. B.S.A., Ohio State Univ., 1906; special student engin., 1906–8. Alpha Zeta.

Randolph, Halley Burnside, co. agrl. agt., Noblesville, Ind.
b. Covington, Ind., Jul. 30, 1891; *s.* Fred. E. and Ora B. (Burnside) R.; reared on farm; *m.* Gail W. Bushy, Aug. 19, 1914; *c.* Halfred Fremont. B.S., Univ. Ill., 1914. Phi Kappa Psi.

Rane, Frank William, Mass. state for., State House, Boston, Mass.
Hort. and microscopist, W. Va. Exp. Sta., 1892–5; prof. agr., W. Va. Univ., 1893–5; prof. agr. and hort., N. H. A.&M. Coll., 1895–8; prof. hort., 1898–1900; prof. hort. and for., 1900–6; Mass. state for., 1906—. Fellow A. A. A. S. Mem. Mass. Conservation Comn.; Forest Taxation Comn.; Mass. For. Comn. Sec. Soc. Promotion Agrl. Sci., 5 yrs. Del. Inter. Ent. Congress, Oxford, England, and to study the forests of Belgium, Switzerland, Germany and France, 1912. Owner

Boston Gardening Co. *b.* Whitmore Lake, Mich., Dec. 11, 1868; *s.* Wm. B. and Ellen (Connelly) R.; reared on farm; *m.* Elizabeth Bailey, Sept. 6, 1893; *c.* Janet, Fannie, Ainsworth. B.Agr., Ohio State Univ., 1891; M.S., Cornell Univ., 1892. Phi Delta Theta; Alpha Zeta.

Rankin, Fred Henry, prof. agrl. ext. and asst. dean Coll. Agr., Univ. Ill., Urbana, Ill.

Present position, 1901—. Sec. dept. live-stock, St. Louis Expos., 1904. *b.* Athens, Ill., May 18, 1865; *s.* Henry B. and Alma (Hurd) R.; reared on farm; *m.* Jennie N. Girty, Jul. 29, 1904. B.S., Ill. Coll., Jacksonville, 1887. Psi Upsilon; Alpha Zeta; Alpha Gamma Rho.

Rankin, John Moses, supt. field sta., U. S. Dept. Agr., Rockville, Md.

b. St. Clair, Mich., Oct. 15, 1875; *s.* John and Abigal (Frasier) R.; reared on farm; *m.* Evelyn Irva Willett, May 15, 1905; *c.* John Willett, Irva Josephine. B.S., Mich. Agr. Coll., 1902.

Rankin, John Owen, assoc. prof. rural econ., University of Nebraska, Lincoln, Nebraska.

Chg. information serv., Univ. Minn. and Univ. Mo., Colleges of Agr.; asst. prof. Univ. Wis.; assoc. prof. Ia. State Coll.; present position, 1918—. *b.* Tarkio, Mo., Apr. 17, 1884; *s.* T. B. and Edith (Owens) R.; reared on farm. A.B., Tarkio Coll., 1904; B.S.A., Ia. State Coll., 1908; A.M., George Washington Univ., 1912. Delta Upsilon; Gamma Sigma Delta; Delta Sigma Rho.

Rankin, William Howard, asst. prof. plant path., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Instr. plant path., Cornell Univ., 1912–4; asst. prof., 1914—. *Auth.:* Manual of Tree Diseases, 1918. *b.* Richmond, Ind., Apr. 3, 1888; *s.* William Thos. and Mary Elizabeth (Cones) R.; reared in city; *m.* Beulah May Hough, Mar. 24, 1911; *c.* Wilbur Hough, Helen Elizabeth, Louise Alice. B.A., Wabash Coll., 1910; Ph.D., Cornell Univ., 1914. Phi Beta Kappa; Sigma Xi.

Rasmussen, Frederick, prof. dairy husb., Penn. State Coll., State College, Pa.

Asst. dairying, Purdue Univ., 1905–6; asst. prof., Ia. State Coll., 1906–7; assoc. prof., N. H. A.&M. Coll., 1907–9; prof., 1909–16; present position, 1916—. Del. to Sixth Inter. Dairy Congress, Berne, Switzerland. Pres. Official Dairy Instrs. Assoc.; pres. N. H. Sanitary Milk Assoc.; sec. Granite State Dairymen's Assoc. Mem. U. S. Food Administration of Pa. *b.* Österheden, Hals, Denmark, Jul. 18, 1876 (naturalized 1912); *s.* Nels and Kirstine (Jensen) R.; reared on farm. B.S.A., Ia. State Coll., 1905. Alpha Zeta; Alpha Tau Alpha; Phi Kappa Phi.

Rast, F. M. Jr., asst. prof. soils and fert., Univ. Fla., Gainesville, Fla.

Agrst., 4th distr. A. & M. Sch., Carrollton, Mo., 1911–3; present position, 1914—. *b.* Orangeburg, S. C., Nov. 21, 1890; *s.* F. M. and Emma R.; reared on farm. B.S., Clemson Agr. Coll.; M.S., Univ. Wis. Sigma Alpha Epsilon.

Rast, Loy Edmund, junior prof. in chg. cotton ind., Univ. Ga., Athens, Ga.

Tutor, Univ. Ga., 1911; instr., 1912–3; adj. prof., 1913–4; prof., 1914—. Sec. Ga. Breeders' Assoc., 1913—. *b.* Palatka, Fla., Oct. 17, 1885; *s.* W. W. and Mattie C. (Bryan) R.; reared on farm; *m.* Clara Louise Rentz, June 23, 1914; *c.* L. E. Jr., Sara Eloise. B.S.A., Univ. Ga., 1911; M.S.A., 1918. Alpha Zeta.

Rather, James Burness, prof. agrl. chem. and head dept., Univ. Ark., Fayetteville, Ark.

Asst. chem., Tex. Exp. Sta., 1907–14; present position, 1915—. Dir. for Ark., Organization for Ind. Preparedness, Naval Consulting Bd. *b.* Bullard, Tex., Oct. 16, 1888; *s.* H. B. and E. May (Bussey) R.; reared in town; *m.* Corrine Carson, 1910; *c.* J. B. Jr., Lelland Joseph. B.S., Tex. A.&M. Coll., 1907; M.S., 1911; A.M., Johns Hopkins Univ., 1915.

Raut, Alfred, distr. agrl. agt., Piedmont, Mo.

Bank clerk, 1891–9; general farmer, Hoopeston, Ill., 1899–1911. *b.* St. Louis, Mo., Feb. 17, 1874; *s.* Julius Rautenstrauch and Anna (Nictor) R.; reared in city; *m.* Lillie Maud Bowen, Sept. 1, 1899 (d. 1911); *c.* Earle. B.S., Univ. Ill., 1914.

Rawl, Bernard Hazelius, chief Dairy Div., Bur. An. Ind., U. S. Dept. Agr., Washington, D. C.

Instr. an. husb. and dairying, Clemson Agr. Coll., 1902–5; chg. dairy farming invests., Dairy Div., 1902–9; chief, 1909—. Mem. Bd. Trustees, Clemson

Agr. Coll. *b.* Lexington, S. C., May 2, 1876; *s.* Benjamin and Margaret (Souter) R.; reared on farm; *m.* Mary Bunting, Jan. 11, 1912. B.S., Clemson Agr. Coll., 1900.

Ray, Glenn Scott, ext. agron., Colo. Agr. Coll., Fort Collins, Colo.

Instr. farm crops, Univ. Ida., 1915–6; head dept., 1916–8; agrl. agt., Adams Co., Wash., 1918; present position, 1918—. *b.* Osceola, Neb., Sept. 17, 1890; *s.* Grant T. and Lizzie B. (Henderson) R.; reared in town. B.S.A., Colo. Agr. Coll., 1915. Alpha Zeta.

Rayner, Olin Stuart, in chg. ext. schs. and asst. state leader co. agts., Colo. Agr. Coll., Fort Collins, Colo.

With Off. Farm Manag., U. S. Dept. Agr., summer 1911; field work in cost-accounting, Ill., 1912–4; asst. prof. agron., Colo. Agr. Coll., 1914–7; present position, 1917—. *b.* Marshfield, Mo., Jul. 9, 1888; *s.* J. J. and Sarah Adella (Crosby) R.; reared on farm; *m.* Elizabeth A. Vance, 1917. B.S.A., Univ. Mo., 1912. Gamma Sigma Delta.

Read, Otis B., state sec. Y. M. C. A. rural work, 19 S. LaSalle St., Chicago, Ill.

b. Plainfield, N. H., June 7, 1884; *s.* Geo. E. and Mary Annie (Chute) R.; reared on farm; *m.* Minnie Jane MacGillvary, Oct. 17, 1909; *c.* Otis B. Jr., Margaret Annie, Grace Minnie. A.B., Colby Coll., 1909. Alpha Tau Omega.

Reaugh, Harry W., manag. Irrig. Co., Neppel, Wash.

Farmer, 1908–15; co. agrl. agt., Ephrasta, Wash., 1915–8; manag. Grant Realty Co., 1918. *b.* Murrayville, Ill., Jul. 21, 1881; *s.* Daniel L. and Ida (McKee) R.; reared on farm; *m.* Anna Magnuson, Sept. 24, 1908; *c.* Daniel Magnuson, Orland Harry, Meryl Armor, Dorthy Elizabeth. B.S., Wash. State Coll., 1908. Alpha Zeta.

Recknagel, Arthur Bernard, prof. for., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Present position, 1913—. Spent one year in study and travel in Europe. Consulting for., Empire State For. Products Assoc.; mem. War Com., Soc. Am. For.; mem. Wood Fuel Adv. Com., State of N. Y. Mem., Hdqrs. Co., 3d Brigade, N. Y. Guard. *Auth.:* The Theory and Practice of Working Plans, 1913 (2d ed., 1917); (with Bentley) Forest Management, 1918. *Ed.,* Forestry Quarterly, now Journal of Forestry, 1913—. *b.* Brooklyn, N. Y., Dec. 15, 1883; *s.* John Hermann and Maric (Westerman) R.; reared in city and on farm; *m.* Mary Thomas Miller, Aug. 25, 1909; *c.* Bernard Westerman, Thos. Miller. B.A., Yale Univ., 1904; M.F., 1906. Sigma Xi.

Reddick, Donald, prof. plant path., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Asst. bot., Cornell Univ., 1905–7; asst. plant path., 1907–8; instr., 1908–9; asst. prof., 1909–11; prof., 1911—. Fellow A. A. A. S. *Ed.,* Phytopathology, 1915; path. sect., Botanical Abstracts, 1918—. *b.* Sheridan, Mo., Mar. 1, 1883; *s.* Elias Albert and Anna (Boone) R.; reared on farm; *m.* Emma Brill, Oct. 19, 1909; *c.* Robt. Brill, Emma Louise, Anna Elizabeth. A.B., Wabash Coll., 1905; Ph.D., Cornell Univ., 1909. Sigma Xi; Gamma Alpha.

Reed, Clarence Arthur, nut culturist, U. S. Dept. Agr., Washington, D. C.

Asst. hort., Md. Agr. Coll., 1906–7; hort., W. Va. Exp. Sta., Sept.-Dec. 1907; present position, 1907—. *b.* Howell, Mich., Jan. 23, 1880; *s.* Hiram Elmer and Rebecca Eliza (Tubbs) R.; reared on farm; *m.* Katherine McNaughton, Nov. 23, 1910. B.S., Mich. Agr. Coll., 1905; M.A., Mich. Agr. Coll., 1914.

Reed, Earle G., co. agrl. agt., Cheyenne, Wyo.

b. Chicago, Ill., Dec. 2, 1890; *s.* Harry G. and Marion H. (Hoagland) R.; reared in city and on farm. Studied 3 yrs., Colo. Agr. Coll. Sigma Delta.

Reed, George O., co. agrl. agt., Tiffin, O.

Live-stock farmer, Hancock Co., 1915–8. *b.* Hancock Co., O., Nov. 22, 1893; *s.* John M. and Florence (Downing) R.; reared on farm. B.S.A., Ohio State Univ., 1915. Sigma Nu.

Reed, Harry James, asst. dir., Purdue Univ. Exp. Sta., LaFayette, Ind.

Asst. hort., Purdue Exp. Sta., 1911; general manag. S. Ind. Orchards Co., 1912; co. agt., Rockville, 1913–6; assoc. hort., Purdue Exp. Sta., 1916–7; asst. dir., 1917—. Agrl. ed., Rockville Tribune,

Rockville Republican. *b.* Edgar Co., Ill., Feb. 9, 1887; *s.* J. H. and Julia (Smith) R.; reared on farm and in town; *m.* Julia M. Heick, Apr. 24, 1915. Purdue Univ., 1911. Phi Gamma Delta.

Reed, Howard Sprague, prof. plant physiology, Univ. Calif., Riverside, Calif.

Instr. bot., Univ. Mo., 1903–6; soil chem., Bur. Soils, U. S. Dept. Agr., 1906–8; prof. mycology and bact., Va. Poly. Inst., 1908–15; plant path., Va. Exp. Sta., 1908–15; present position, 1915—. Fellow A. A. A. S. Traveled in Europe, 1913. *Auth.:* Manual of Bacteriology, 1914. *b.* North East, Pa., Aug. 6, 1876; *s.* Joseph H. and Emma Gertrude (Sprague) R.; reared on farm; *m.* Hanah M. Dewey, Aug. 17, 1904. A.B., Univ. Mich., 1903; Ph.D., Univ. Mo., 1907. Sigma Xi.

Reed, Ollie Ezekiel, prof. dairy husb., Purdue Univ., LaFayette, Ind.

Asst., Univ. Mo., 1908–9; instr. milk production, Purdue Univ., 1909–10; asst. prof. dairy husb., Kans. State Agr. Coll., 1910–1; prof. dairy husb., 1911–8; present position, 1918—. *b.* Fayette, Mo., Aug. 19, 1885; *s.* W. L. and Annie E. (Manion) R.; reared on farm; *m.* Lucy Ann Lee, June 8, 1910; *c.* Rosa Lee, Olive. B.S., Univ. Mo., 1908; M.S., 1910. Phi Kappa Phi; Alpha Zeta; Gamma Sigma Delta.

Reed, Thomas Cleveland, prof. an. husb. and dairying, N. C. A.&M. Coll., W. Raleigh, N. C.

Grad. asst., Univ. Mo., 1912–4; instr., 1915–6; assoc. prof. dairying, N. C. A. & M. Coll., 1916–7; prof., 1917—. *b.* Howard Co., Mo., Jan. 2, 1888; *s.* Wm. L. and Annie E. (Manion) R.; reared in country and town; *m.* Gale B. Scott, Oct. 1, 1914; *c.* Scott, Thomas Cleveland Jr. B.S., Univ. Mo., 1913; M.A., 1914. Gamma Sigma Delta.

Reeves, George I., ent. asst., U. S. Dept. Agr., 322 H St., Salt Lake City, Utah.

Asst. ent., Univ. Mo., 1903–4. *b.* Morris, Ill., Mar. 4, 1879; *s.* D. A. and Eva Lucy (James) R.; reared on farm; *m.* Miriam Welles, Apr. 14, 1906. B.A., Univ. Ill., 1902.

Regan, Stephen Alvin, grain superv., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

State seed comnr. of Ida., 1914. *b.* Boise, Ida., Apr. 30, 1893; *s.* Morgan and Lillian (Blackinger) R.; reared in town; *m.* Ruth Motie, Oct. 7, 1916. B.S.A., Univ. Ida., 1914. Kappa Sigma.

Regan, William Michael, prof. dairy husb., Rutgers Coll., New Brunswick, N. J.

Asst. dairy husb., Univ. Mo., 1912–3; instr., 1913–5; asst. prof., Univ. Nev., 1916–7; present position, 1917—. *b.* Joplin, Mo., Feb. 18, 1884; *s.* Wm. H. and Clara (Smith) R.; reared on farm. B.S., Univ. Mo., 1912; A.M., 1914. Gamma Sigma Delta; Gamma Alpha; Sigma Xi.

Reid, Tandy Roy, co. agrl. agt., Monticello, Ark.

Prof. sci. and agr., Clinton Coll., Ky., 1912–3; prof. an. husb., State Agr. Sch., College Station, Ark., 1913–7. Sec. Drew Co. Swine Growers' and Marketing Assoc. *b.* Gowensville, S. C., Aug. 26, 1889; *s.* H. S. and Mary Telulah (Foster) R.; reared on farm; *m.* Bertha Smith, Dec. 22, 1912; *c.* T. Roy Jr. B.S., Clemson Agr. Coll., 1912.

Reimer, Frank Charles, supt. S. Ore. Exp. Sta., Talent, Ore.

Asst. hort., Fla. Exp. Sta., 1903–5; asst., assoc. and prof. hort., N. C. A.&M. Coll., 1905–11; present position, 1911—. *b.* Stevensville, Mich., Sept. 4, 1881; *s.* Chas. and Emilia R.; reared on farm; *m.* Annie Bellows, Jul. 26, 1906; *c.* Lillian. B.S., Mich. Agr. Coll., 1903; M.S., Univ. Fla., 1905.

Reist, Henry Nissley, co. agrl. agt., Warren, Pa.

Instr. agr., high-sch., Amboy, Minn., 1913–5; present position, 1915—. *b.* Mount Joy, Pa., Nov. 29, 1890; *s.* E. G. and Fianna (Nissley) R.; reared on farm. B.S., Penn. State Coll., 1913. Delta Tau Delta.

Rexford, Frank A., nutr. superv. student serv., N. Y. Bd. Educ., New York City.

Teach. sci., Bay Shore high-sch., 1900–1; chem., Erasmus Hall high-sch. 1901–17; microscopical technique, N. Y. Univ. summer sch. 1905; lect., 1914–7; present position, 1918—; chief zone dir.,

N. Y. State Boys' Working Reserve, 1918—; asst. dir. U. S. Boys' Working Reserve. Farmer, Earlville, N. Y., 1913—. *Auth.:* One Portion Food Table, 1912. *b.* Smyrna, N. Y., Aug. 22, 1876; *s.* Frank D. and Cornelia (Forman) R.; reared in town; *m.* Mary Gertrude Pratt, Jan. 1, 1903; 2d, Florence Gilliland, Dec. 23, 1910; *c.* Pratt. B.S., N. Y. Univ., 1905.

Reynolds, Ernest Shaw, assoc. prof. bot. and plant path., N. D. Agr. Coll., Agricultural College, N. D.

Asst. prof. bot., Univ. Tenn., 1909–12; present position, 1912—. Special agt., Off. For. Path., U. S. Dept. Agr., summer 1911; special agt., white pine blister rust, Minn., summer 1916; special agt., citrus canker eradication, Fla., summer 1917. *b.* Glendale, Mont., Dec. 7, 1884; *s.* Henry Sheldon and Frances Adelia (Potter) R.; reared in city; *m.* Ruth Evelyn Caverly, Sept. 3, 1912; *c.* Eleanor Frances, Ernest S. Jr. Ph.B., Brown Univ., 1907; A.M., 1907; Ph.D., Univ. Ill., 1909. Sigma Xi; Phi Kappa Phi; Gamma Alpha.

Reynolds, Myron Herbert, prof. vet. med., Univ. Minn., St. Paul, Minn.

Present position, 1893—. Mem. Minn. State Live-Stock Sanitary Bd., 1903—; Minn. Stallion Registration Bd., 1907—; Inter. Comn. on Control Bovine Tuberculosis. *Auth.:* Veterinary Studies for Agricultural Students, 7th ed. 1911. *b.* Wheaton, Ill., Nov. 5, 1865; *s.* Gardner W. and Mary A. (Budd) R.; reared in village; *m.* Eva M. Kuhn, 1893; 2d, May I. Shaw, Mar. 31, 1897; *c.* Gardner Shaw, Mary Janet, Robt. Thos., Margaret Shaw. B.S., Ia. State Coll., 1886; D.V.M., 1889; M.D., Ia. Coll. Physicians and Surgeons, 1891; Ph.G., Ia. Coll. of Pharmacy, 1891.

Reynolds, Walker Rexford, distr. agrl. agt., Tyner, Ky.

Pres. Jackson Co. Fair Co.; co. chm. U. S. Public Serv. Reserve. *b.* Ky., Sept. 28, 1877; *s.* Gilbert and Matilda (Mainous) R.; reared on farm; *m.* Mary M. Jones, Aug. 30, 1889; *c.* Coleman, Don Roy, Dorsey F., Sylvia, Henry Lester, Nannie D., Ona C., Marie, Walker R. Jr.

Rhoads, Wayland, co. agrl. agt., Independence, Ky.

b. Frankfort, Ky., Sept. 30, 1892; *s.* McHenry and Ree (Crawford) R.; reared in city and on farm. B.S.A., Univ. Ky., 1915. Alpha Zeta.

Rhodes, Leroy, asst. prof. agrl. engin., Tex. A.&M. Coll., College Station, Tex.

Present position, 1915—. *b.* Geneva, Neb., Nov. 2, 1890; *s.* Herbert and Amelia C. (Nicholson) R.; reared on farm. B.Sc., Univ. Neb., 1915. Sigma Tau; Alpha Zeta.

Rice, James Edward, prof. poultry husb., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Farmer, Bucks Co., Pa., 1892–3; Yorktown, N. Y., 1893–1903; present position, 1903—. Pres. and sec.-treas. N. Y. State branch of Am. Poultry Assoc. Lect. farmers' insts., 13 yrs. *b.* Aurora, Ill., Mar. 12, 1865; *s.* James R. and Emeline (Wing) R.; reared on farm; *m.* Elsie Van Buren, 1888; *c.* Ruth Van Buren, Paul Kruger, J. E. Jr., John V., Alice V., Elizabeth V. B.S.A., Cornell Univ., 1890. Sigma Xi; Alpha Zeta.

Richards, Griffith, co. agrl. agt., Kenosha, Wis.

Instr. agr., high-sch., Little Falls, 1½ yrs.; agt. Price Co., Wis., 1914—. *b.* Cambria, Wis., Feb, 9, 1889; *s.* Griffith and Laura A. (Williams) R.; reared on farm. B.S., Univ. Wis., 1911. Alpha Zeta.

Richards, W. B., co. agrl. agt., Ellendale, N. D.

Instr. an. husb., Univ. Wis., 1903–4; asst. prof. and prof., 1904–14; agrl. field agt., N. D. Agr. Coll., 1914–8. Sec. N. D. Stallion Registration Bd.; sec. N. D. Live-Stock Assoc., 1905–15. *b.* Cambria, Wis., Apr. 28, 1877; *s.* Griffith and Laura (Williams) R.; reared on farm; *m.* Avis L. Lockerby, Aug. 17, 1909; *c.* W. L., Rachel Avis. B.S.A., Univ. Wis., 1903. Alpha Zeta; Phi Kappa Phi.

Richardson, H. R., co. agrl. agt., Ft. Dodge, Ia.

In U. S. Army, 1918—. *b.* Manson, Ia., May 1, 1893; *s.* Clark and Mary J. (Wright) R.; reared on farm. B.S. in Agron., Ia. State Coll., 1916. Sigma Delta Chi.

Ricker, Percy Leroy, asst. bot. forage crop invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Instr. biol., Univ. Me., 1900–1; sci. asst., Div. Agrostology, U. S. Dept. Agr., 1901–5; taxonomic and range invest., 1905–8; asst. bot., range invest., 1908–17; present title, 1917—. Fellow A. A. A. S. *b.* Brunswick, Me., Mar. 27, 1878; *s.* Chas. H. and Susan C. (Lunt) R.; reared in town; *m.* Eliza M. Atkinson, Nov. 4, 1903; *c.* Alice Leavitt, Arthur Leroy, Carl Lunt, Mary Atkinson, Chas. Skofield, Warren Goold. B.S., Univ. Me., 1900; M.S., 1901.

Rickey, H. W., poultry specialist, ext. serv., Md. Agr. Coll., College Park, Md.

Instr. poultry husb., R. I. State Coll., 1911–2; dir. boys' and girls' club work in Ky. for U. S. Dept. Agr., 1912–4; prof. poultry husb., R. I. State Coll., 1915–7; present position, 1917—. *b.* Chestertown, Md., Jan. 7, 1877.

Riddick, Wallace Carl, pres. N. C. State Coll. Agr. and Eng., Raleigh, N. C.

Teach. public schs., Stokes Co., N. C., 1885–7; engin., Roanoke Navigation and Water Power Co., Weldon, 1890–2; prof. civil engin., N. C. State Coll., 1892–1916; pres., 1916—. *b.* Raleigh, N. C., Aug. 5, 1864; *s.* Wiley Goodman and Anna Ivy (Jones) R.; reared on farm; *m.* Lillian Daniel, 1893; *c.* Wallace W., Lillian I., Narcissa D., Anna J., Eugenia T. B.A., Univ. N. C., 1885; C.E., Lehigh Univ., 1890; LL.D., Wake Forest Coll. and Lehigh Univ., 1917. Kappa Alpha.

Ridgway, Joseph Wilder, prof. dairy husb., Tex. A.&M. Coll., College Station, Tex.

Asst. dairy husb., Miss. A.&M. Coll., 1905–6; dairy field worker, Dairy Div., U. S. Dept. Agr., 1906–7; asst. prof. an. ind., Ala. Poly. Inst., 1907–9; expl. work, Bur. An. Ind., 1909–10; present position, 1910—. Sec. Tex. Creameries Assoc.; sec.-treas. Tex. Dairymen's Assoc.; sec.-treas. Holstein-Friesian Breeders' Club of Tex. *b.* Sessums, Miss., Aug. 11, 1886; *s.* R. B. and Margarette (Belle) R.; reared on farm; *m.* Gladys Harris, Dec. 21, 1910; *c.* Lillie Harris, Helen. B.S., Miss. A.&M. Coll., 1905; M.S., Ala. Poly. Inst., 1909.

Ridley, Vincent William, sci. asst. in pom., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

b. Warrensburg, Mo., Jan. 25, 1893; *s.* Cyrus C. and S. J. (Culley) R.; reared in country. B.S.A., Univ. Mo., 1914. Alpha Zeta.

Riggs, Ernest J., farmer, Gallipolis, O.

Asst. hort., N. H. A.&M. Coll., 1897–8; asst. hort., Ohio Exp. Sta., 1910–4; co. agrl. agt., Ohio, 1914–7. Pres. O. State Hort. Soc., 1913–6; sec. Gallia Co. Farm Bur. *b.* Gallia Co., O., June 19, 1873; *s.* Jacob and Elizabeth (Guthrie) R.; reared on farm; *m.* Alice Stoner, June 15, 1897; 2d, Naomi Haber, Nov. 14, 1917; *c.* Lowell E. B.Sc., Ohio State Univ., 1895; M.Sc., 1897. Kappa Sigma.

Riggs, Walter Merritt, pres. Clemson Agr. Coll., Clemson College, S. C.

Instr. English, Ala. Poly. Inst., 1894–5; instr. physics, 1895–6; instr. electrical and mech. engin., Clemson Agr. Coll., 1896–1901; prof. electrical engin. and dir. engin. dept., 1901–11; acting pres., 1910–1; pres., and consulting prof. engin., 1911—. Fellow Am. Inst. Electrical Engin. Mem. S. C. Public Serv. Comn.; chm. S. C. com. of Naval Consulting Bd., 1916—; mem. S. C. State Council Nat. Defense, 1917—. Pres. Land Grant Coll. Engin. Assoc., 1917—; vice-pres. and mem. exec. com., Am. Assoc. Agrl. Colls. and Exp. Stas., 1917—; pres. Southern Intercollegiate Athletic Assoc., 1913–5; pres. S. C. Intercollegiate Athletic Assoc., 1900—. *b.* Orangeburg, S. C., Jan. 24, 1873; *s.* Harpin and Emma Julia (Gowan) R.; reared in small town; *m.* Marie Louise Moore, Dec. 22, 1897. B.S., Ala. Poly. Inst., 1893; E. and M.E., 1894; LL.D., S. C. Univ., 1911. Phi Delta Theta.

Riley, Howard Wait, prof. rural engin., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Draftsman, United Telpherage Co., N. Y. City, 1901; engin., Morse Chain Co., Ithaca, N. Y., 1904; instr. expl. engin., Cornell Univ., 1906; instr. farm mech., 1907; asst. prof., 1909; prof. rural engin., 1912—. Pres. Am. Soc. Agrl. Engin. Farm operator. *b.* Orange, N. J., May 2, 1879; *s.* Wm. H. and Louisa Wait (Lord) R.; reared on farm; *m.* Julia Whiton Mack, June 5, 1906; *c.*

Manton Lord, Robt. Wm., E.E. in M.E., Cornell Univ., 1901.

Riley, William Albert, prof. ent. and chief div. ent. and econ. zool., Univ. Minn., St. Paul, Minn.

Asst. zool., De Pauw Univ., 1896–8; fellow in ent., Cornell Univ., 1898–9; asst. ent. and invertebrate zool., 1899–1901; instr. ent., 1901–6; asst. prof., 1906–12; prof., 1912–8; present position, 1918—. Fellow A. A. A. S.; fellow Ent. Soc. Am. *Auth.:* (with Johannsen) Handbook of Medical Entomology. Mem. editorial bd., The Journal of Parasitology, Annals of the Ent. Soc. of Am., Abstracts of Bacteriology. *b.* Manhato, Minn., Jan. 10, 1876; *s.* Albert Thos. and Otillie P. (Maaj) R.; reared in town; *m.* Mae E. Fullhart, June 8, 1904; *c.* Alice Lois. B.S., DePauw Univ., 1897; Ph.D., Cornell Univ., 1903. Phi Beta Kappa; Sigma Xi; Delta Upsilon; Gamma Alpha.

Rinkle, Lorin George, dairy and food comnr., Kansas City, Mo.

Asst. dairying, Univ. Mo., 1907–9; instr., 1909–11; asst. prof., 1912–8; present position, 1918—. *b.* Dimondale, Mich., May 4, 1886; *s.* Geo. W. and Anna S. (Matthews) R.; reared on farm; *m.* Will C. Davis. B.S.A., Mich. Agr. Coll., 1907; M.S.A., Univ. Mo., 1910. Delta Sigma Gamma.

Rist, L. Boyd, co. agrl. agt., Beatriee, Neb.

Instr. an. husb., Univ. Neb., 1914–6; agrl. agt., Gage Co., Neb., 1916—. *b.* Humbolt, Neb., Nov. 10, 1891; *s.* Sam and Mary (Friedley) R.; reared on farm. B.S.A., Univ. Neb., 1916. Alpha Zeta.

Roadhouse, Chester Linwood, prof. dairy ind., Univ. Calif., Berkeley, Calif.

Vet. insp., Bur. An. Ind., U. S. Dept. Agr., 1906–8; chief dairy insp., Dept. Health, San Francisco, 1909; city vet., Dept. Public Health, Berkeley, Calif., 1910; lect. dairy bact., Univ. Calif., short-course, 1910; instr. vet. sci., 1911–3; asst. prof., 1913–4; assoc. prof., 1914–7; prof. dairy ind., 1917—. Sec. and pres. Calif. State Vet. Med. Assoc., 1915–6; vice-pres. Inter. Assoc. of Dairy and Milk Insps., 1917–8. Farm operator, 1907—. Mem. editorial com. for correspondence courses in agr., 1914–6. *b.* Watsonville, Calif., Jan. 5, 1881; *s.* John J. and Imogene (Kimberlin) R.; reared on farm and in town; *m.* Christine Judah, Dec. 2, 1910; *c.* Katharine, Francis, Donald. D.V.M., Cornell Univ., 1906. Theta Delta Chi.

Robb, Byron Burnett, asst. prof. rural engin., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Teach. distr. sch., 1905–7; asst. in farm mech., Cornell Univ., 1910–1; instr., 1911–3; asst. prof., 1913—. *b.* Webster, N. Y., Aug, 8, 1882; *s.* C. F. and Frances (Burnett) R.; reared on farm; *m.* Georgia Frances Bills, Aug. 7, 1912; *c.* Frances, Julia Ann. B.S., Cornell Univ., 1911; M.S.A., 1913.

Robb, Newell Snowden, co. agrl. agt., Eugene, Ore.

Stock farmer, 1911–3; head dept. farm crops, Univ. Ida., 1914–6; agrl. agt., Lane Co., Ore., 1916—. *b.* Neal, Kans., Nov. 8, 1888; *s.* Wm. E. and L. (Snowden) R.; reared on farm; *m.* Agnes M. Bardson; *c.* Eleanore Clarice. B.S.A., Kans. State Agr. Coll., 1911. Sigma Nu; Alpha Zeta.

Robbins, Wilfred William, bot., Colo. Exp. Sta., Fort Collins, Colo.

Instr. high-sch., Golden, Colo., 1906–7; instr. physics, Central High-Sch., Pueblo, Colo., 1907–8; instr. biol., Univ. Colo., 1908–11; instr. biol., Summer Lab. for field biol., Tolland, 1909, 1910, 1913; instr. bot., Colo. Agr. Coll., 1911–3; asst. prof., 1913–5; prof. and bot. Exp. Sta., 1915—. Biol. trips in Mohave Desert and N. Mex. *Auth.:* Botany of Crop Plants, 1917. *b.* Mendon, O., May 11, 1884; *s.* Isham B. and Jennie (Hussey) R.; reared on farm and in city; *m.* Louise Falk, June 15, 1911; *c.* Wilfred T., Hertha Marie. A.B., Univ. Colo., 1907; A.M., 1909; Ph.D., Univ. Chicago, 1917. Sigma Xi; Alpha Zeta; Sigma Phi Epsilon.

Roberds, Elzie Sherfield, co. agrl. agt., Ripley, Tenn.

Asst. agrst., Progressive Farmer. *b.* Quincy, Miss., Feb. 13, 1893; *s.* Wm. E. and Sallie E. R.; reared on farm. B.S., Miss. A.& M. Coll., 1913.

Roberts, Albert E., inter. sec., Y. M. C. A., 124 E. 28th St., New York City.

Mem. Country Church Comn., Fed. Council of Churches of Christ in Am.; mem. Sunday School Comn.; mem. Am. Comn. for study of agrl. coop. in Europe. *b.* Manchester, N. H., Mar. 4, 1873; *s.*

Edward and Myra (Webster) R.; reared on farm and in city; *m.* Mabel Ruth Brow, June 6, 1900; 2d, Lillas G. Neil, Jan. 1, 1914; *c.* Mabel Ruth.

Roberts, George, prof. agron., Univ. Ky., Lexington, Ky.

Princ. Ky. Wesleyan Acad., Burnside, 1899–1900; asst. chem., Ky. Exp. Sta., 1901–3; asst. chem., Calif. Exp. Sta., 1903–6; asst. chem., Ky., Exp. Sta., 1906–9; agron. and prof. agron., Univ. Ky., 1909—; acting dean, Coll. Agr., 1916–7. Treas. and mem. exec. com., Am. Soc. Agron., 1912–7. *b.* Burnside, Ky., June 16, 1873; *s.* Missouri and Lucy Helen (Meece) R.; reared on farm; *m.* Rhoda Gibson Elliott, Sept. 6, 1899; *c.* Helen Porter, Katherine, Joseph Kastle, Geo. B.Ped., Univ. Ky., 1899; M.S., 1901. Alpha Zeta.

Roberts, Guy Alexander, prof. vet. med., N. C. A.&M. Coll., W. Raleigh, N. C.

Asst. state vet., N. C., 1903–7; asst. vet., N. C. Exp. Sta., 1903–7; vet., 1908–15; ext. serv. vet., 1914—; asst. prof. vet. med., N. C. A.&M. Coll., 1903–6; assoc. prof., 1906–8; prof., 1908—. *b.* Parkville, Mo., Dec. 11, 1875; *s.* Thos. Dodds and Emma Martha (Mather) R.; reared on farm and in town; *m.* Emily Clara Steinmetz, May 15, 1907. B.Agr., Univ. Mo., 1899; B.S., 1900; D.V.S., Kans. City Vet. Coll., 1903. Alpha Zeta.

Roberts, Isaac Phillips, agrst., Palo Alto, Calif.

Prof. agr., Ia. State Coll., 1870–4; prof. agr., Cornell Univ., 1874–1903; dean Coll. Agr., 1878–1903; dir. Exp. Sta., 1888–1903; prof. emeritus, 1903—. *Auth.:* The Fertility of the Land, 1898; The Farmstead, 1900; The Farmers' Business Handbook, 1903; The Horse, 1905; Autobiography of a Farm Boy, 1916. *b.* E. Varick, N. Y., Jul. 24, 1833; *s.* Aaron P. and Elizabeth (Burroughs) R.; reared on farm; *m.* Margaret Marr, Nov. 3, 1857; *c.* Mary E. (Mrs. Dane Coolidge), Perry B., Roger M. M.A., Ia. State Coll., 1875. Alpha Zeta.

Roberts, John William, path. fruit disease invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Teach. Latin and German, high-sch., Falls City, Neb., 1905–6; asst. bot., Univ. Neb., 1908; sci. asst., U. S. Dept. Agr., 1909–11; asst. path., 1912–3; path., 1913—. *b.* Alma, Neb., Jul. 4, 1882; *s.* S. L. and A. M. (McGlathery) R.; reared in town; *m.* Ethel J. Hutchins, Dec. 10, 1911. A.B., Univ. Neb., 1904; A.M., 1909; Ph.D., George Washington Univ., 1917. Sigma Xi; Alpha Theta Chi.

Robertson, Frederick Eugene, asst. co. agt. leader, Cornell Univ., Ithaca, N. Y.

Farm manag., U. S. Dept. Agr., 1898–1903; agt. Jefferson Co., N. Y., 1912–7; present position, 1917—. Sec.-treas., North Country Nat. Farm Loan Assoc. *b.* Cambridge, N. Y., Feb, 18, 1878; *s.* Russel K. and Margaret (Shanahan) R.; reared on farm; *m.* Georgiana E. Thomas, Aug. 13, 1910; *c.* Benjamin Russel, Wm. Hawley. B.S.A., Cornell Univ., 1909.

Robinson, Earl Paul, asst. co. agt. leader, Mich. Agr. Coll., E. Lansing, Mich.

Instr. agr., Northwood Acad., N. H., 1907–8; farmer, 1908–12; agrst., Holland-St. Louis Sugar Co., Decatur, Ind., 1912; co. agt., Saginaw, Mich., 1913–7; present position, 1917—. *b.* Markesan, Wis., Oct. 9, 1882; *s.* Edwin W. and Jane A. (Hare) R.; reared on farm; *m.* Sibyl Fritz, Sept. 18, 1907; *c.* Francis Edwin. B.S., Mich. Agr. Coll., 1907.

Robinson, James L., co. agrl. agt., Jacksboro, Tenn.

b. Franklin, N. C., Dec. 4, 1889; *s.* Jesse S. and Ittie (Norton) R.; reared on farm. B.S.A., Univ. Tenn., 1915. Alpha Zeta.

Robinson, Lawrence Eugene, asst. prof. rural arch., Ore. Agr. Coll., Corvallis, Ore.

Present position, 1914—. Traveled in Europe, 1910. *Auth.:* Domestic Architecture, 1917. *b.* Eureka, Ill., Sept. 17, 1880; *s.* James Edwin and Elizabeth Bell (Vance) R.; reared in town and on farm; *m.* Erma Seaton, Apr. 29, 1914; *c.* Phoebe Vance. B.S., Univ. Penn., 1906. Phi Gamma Delta.

Robinson, Leonard G., pres. Fed. Land Bank of Springfield, lawyer, agrl. econ., Springfield, Mass.

General manag., Jewish Agrl. and Ind. Aid Soc., 1905–17; present position, 1917—. Established over 3000 immigrant

families as farm owners through the U. S. Founder of pioneer coop. agrl. credit unions in Am. *Auth.:* The Agricultural Activities of the Jews in America, 1912; co-author, Credit Union Primer, 1914. *b.* Russia, Mar. 11, 1875 (naturalized 1897); *s.* Bernhard and Leah (Schatzkin) R.; *m.* Betty F. Levey, Jan. 10, 1911; *c.* Leonard G. Jr. A.B., Harvard Univ., 1902; LL.B., N. Y. Law Sch. and admitted to N. Y. Bar, 1906.

Robinson, Montgomery, asst. prof. ext. serv., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Tutor Latin, Princeton Univ., 1903–6; instr. ext. teaching, Cornell Univ., 1914–6; asst. prof., 1916—. Rancher, Nev. and Ida., 2 yrs. *b.* Brooklyn, N. Y., Apr. 30, 1884; *s.* Franklin E. and Lillie (Ludlam) R.; reared in town; *m.* Anne C. Carpenter, 1910; *c.* Janet Ewing, James Ludlam. B. Litt., Princeton Univ., 1906; B.S., Cornell Univ., 1914.

Robison, Martha Elisabeth, supt. rural dept., Pa. State Sabbath Sch. Assoc., Bloomsburg, Pa.

Teach. public schs., 9 yrs.; field sec., Columbia Co. Sabbath Sch. Assoc., 2 yrs.; general field worker, Pa. State Sabbath Sch. Assoc., 1908–14; supt. rural dept., 1914—. *Auth.:* Junior Quarterly for Am. Sunday School Union, 1916—. *b.* Bloomsburg, Pa., Nov. 17, 1874; *c.* James Boyd and Jennie (Breece) R.; reared in country. B. El. Di., M. El. Di., B.Ped., Bloomsburg State Normal Sch.

Rockwell, Frederick Frye, consulting agrst., manag. Burpee's, Doylestown, Pa.

Circulation manag., Garden Magazine, 1906–7; manag. Wilshire Book Co., 1907–8; with New York Call, 1908–9; contributing ed., House and Garden, The Garden Magazine. Engaged in farming and greenhouse business. *Auth.:* Home Vegetable Gardening, 1911; Gardening Indoors and Under Glass, 1912; Making a Fruit Garden, 1914; The Pocket Garden Guide, 1914; The Key to the Land, 1915; Around the Year in the Garden, 1916; The Little Pruning Book; Save it for Winter, 1918. *b.* Brooklyn, N. Y., Apr. 2, 1884; *s.* Frank Warren and Elizabeth (Trowbridge) E.; reared on farm; *m.* Marjorie Hughan, Sept. 5, 1910; *c.* Wallace Hughan, Frederick Frye, Donald West. Student Wesleyan Univ., Conn., 1905–6.

Rodegeb, Eli Leroy, co. agrl. agt., Willmar, Minn.

Teach. agr. and sci., high-sch., Saline, Mich., 1 yr.; teach. agr., high-sch., Red Creek, N. Y., 4 yrs.; Willmar, Minn., 3 yrs. *b.* Whittemore, Mich., Jan. 21, 1887; *s.* Henry and Artie (Brown) R.; reared on farm; *m.* Mabel C. Wermuth; *c.* Mildred Lucil, Luella Grace. B.S., Mich. Agr. Coll., 1910.

Roe, William Isaac, co. agrl. agt., Watertown, N. Y.

b. Oxford Depot, N. Y., Nov. 4, 1890; *s.* Thomas Beach and Elizabeth P. R.; reared on farm. Cornell Univ., 1917.

Roeding, George Christian, nurseryman and fruit-grower, Fresno, Calif.

Sent to Europe and Asia Minor as comnr. from U. S. Dept. Agr., 1901; in 1912 as rep. Panama-Pacific Inter. Expos. Pres. Calif. State Bd. Agr. *Auth.:* Monograph on the Smyrna Fig at Home and Abroad, 1901. *b.* San Francisco, Calif., Feb. 4, 1868; *s.* Frederic and Marianne R.; reared in city; *m.* Elizabeth Thorne, Dec. 15, 1897; *c.* Marianne E., Geo. C. Jr., Eleanor Louise, Evelyn T.

Rogers, Burton Ray, vet., 66 W. 39th St., New York City.

House surgeon and dem. anat., Ia. State Coll., 1900; fed. meat insp. at various points, 1900–6; anatomist, Kans. State Agr. Coll., 1906–14; dean and sec., St. Joseph Vet. Coll., Mo., 1914–7; at present devoting time to tuberculosis educ. and prevention. Sec.-treas. Kans. Vet. Med. Assoc., 1907–12. *b.* Polk City, Ia., Nov. 1, 1879; *s.* Geo. W. and Mary Elizabeth (Keim) R.; reared in town; *m.* Margaret Fritz, Sept. 18, 1901. D.V.M., Ia. State Coll., 1899. Alpha Psi.

Rogers, Francis Elton, co. agrl. agt., Sodus, N. Y.

Instr. ext. in pom., Cornell Univ., 1915; agt. New Haven Co., Conn., 1915–7; agt. Wayne Co., N. Y., 1917—. *b.* Canandaigua, N. Y., Sept. 1, 1887; *s.* Chauncey E. and Mary E. (Outhouse) R.; reared on farm; *m.* Mabel Luella Flumerfelt, Aug. 11, 1916; *c.* Helen Jane. B.S., Cornell Univ., 1914; M.S., 1915. Alpha Zeta.

Rogers, Hawley Bunce, co. agrl. agt., Jamestown, N. Y.

b. East Orange, N. J., Oct. 9, 1886; *s.* Buel L. and Frances A. (Rogers) R.; reared in village and on farm. B.S., Cornell Univ., 1912.

Rogers, Lore Alford, in chg. labs., Dairy Div., U. S. Dept. Agr., Washington, D. C.

Assoc. ed., Journal of Bacteriology; Bacteriological Abstracts; Journal of Dairy Science. *b.* Patten, Me., Feb. 7, 1875; *s.* Luther B. and Mary E. (Barker) R.; reared on farm; *m.* Beatrice C. Oberly, Oct. 5, 1908; *c.* John O. B.S., Univ. Me., 1896. Kappa Sigma.

Rohr, Harley Downton, co. agrl. agt., Grafton, W. Va.

Asst. princ. Hillsboro High-sch., 1911–2; princ., 1912–4. *b.* Alum Bridge, W. Va., Aug. 10, 1886; *s.* J. B. and Lydia A. (Hannah) R.; reared on farm; *m.* Nelle M. Bailey, May 5, 1918. B.S. Agr., W. Va. Univ., 1917.

Roland, Raymond Michael, asst. co. agt. leader, Univ. Mo., Columbia, Mo.

Co. agrl. agt., Paoli, Ind., 1915–8; present position, 1918—. *b.* Morris, Pa., Nov. 7, 1887; *s.* Geo. W. and Mary E. (Campbell) R.; reared on farm; *m.* Jessie Maude Boston, Apr. 11, 1918. B.S., Mich. Agr. Coll., 1915.

Rolfs, Peter Henry, dean Coll. Agr., Univ. Fla., Gainesville, Fla.

Asst. bot., Ia. State Coll., 1891; ent. and bot., Fla. Exp. Sta., 1891–8; bot. and hort., 1898–9; prof. bot., Fla. Agr. Coll., 1892–9; bot. and bact., Clemson Agr. Coll., 1899–1901; plant path. in chg. Subtropical Lab., Miami, Fla., 1901–6; dir. Fla. Exp. Sta., 1906—; dir. ext. div., 1914—; dean Coll. Agr., 1915—; supt. farmers' insts., 1907–19. Mem. adv. com., Fla. State Plant Bd., 1915; chm. State Council Defense, 1917–8. Fellow A. A. A. S. Pres. Fla. State Hort. Soc., 1906–7; mem. exec. com., 1906—. *Auth.:* Vegetable Growing in the South for Northern Markets, 1896; Subtropical Vegetable-Gardening, 1916. *b.* LeClaire, Ia., Apr. 17, 1865; *s.* Maas Peter and Maria Christina (Niemeier) R.; reared on farm; *m.* Effie Stone, Aug. 25, 1892; *c.* Effie, Clarissa. B.S., Ia. State Coll., 1889; M.S., 1891. Phi Kappa Phi.

Rommel, George McCullough, chief an. husb. div., Bur. An. Ind., U. S. Dept. Agr., Washington, D. C.

Asst. an. husb., Ia. State Coll., 1899–1901; manag. O. R. & N. Exp. Farm, Walla Walla, Wash., 1901; chg. an. husb. work, Bur. An. Ind., 1901—. Sec. Am. Genetic Assoc. Del. 1st Pan Am. Sci. Congress, Santiago, Chile, 1908, 1909; mem. exec. com. 2d Congress, Washington, 1914, 1915. *Auth.:* The Hog Industry, 1903. *b.* Mt. Pleasant, Ia., Feb. 26, 1876; *s.* A. and Rachel P. (McCullough) R.; reared in town; *m.* Sallie Russell Reeves, Sept. 19, 1906; *c.* Anna Margaret, Sarah Elizabeth, Alexander Ross. B.S., Ia. Wesleyan Coll., 1897; B.S.A., Ia. State Coll., 1899. Phi Delta Theta.

Root, Ernest Rob, beekeeper and ed., Medina, O.

Vice-pres. A. I. Root Co., publishers. *Ed.*, Gleanings in Bee Culture, 1885—. *Auth.:* ABC and XYZ of Bee Culture, 1915; Feeding and Feeders, 1905; Facts About Bees, 1906; The Buckeye Bee Hive, 1909; Bee Diseases, 1918; Wintering of Bees, 1913; The Bee Keeper and the Fruit Grower, 1918. Lect., Ohio State Univ. Vice-pres. O. Comn. of Jamestown Expos, 1903–5. *b.* Medina, O., June 23, 1862; *s.* Amos Ives and Susan (Hall) R.; reared in town; *m.* Elizabeth Humphrey, Dec. 15, 1885; *c.* L. Ives, A. I. Studied Oberlin Coll.

Root, Ralph Rodney, lands. arch., Chicago, Ill.

In chg. professional course lands. gard., Univ. Ill., 1912–8; exchange prof., Mass. Agr. Coll., 1915; chg. summer sch. lands. arch., Lake Forest Coll., 1916—. Traveled in Europe, 1912, England 1914. *Auth.:* (with Kelley) Design in Landscape Gardening, 1914. *b.* Jamestown, N. Y., Mar. 15, 1884; *s.* Frank Henry and Josephine (Wilcox) R.; reared on farm. B.S., Cornell Univ., 1910; M.L.A., Harvard Univ., 1912.

Rose, Charles Lovell, co. agrl. agt., Evart, Mich.

Investigated live-stock, England and Channel Isls., 1911. *b.* Evart, Mich., June 18, 1887; *s.* Chas. H. and Emma (Lancashire) R.; reared in town. B.S., Mich. Agr. Coll., 1911.

Rose, Flora, prof. home econ., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Asst. prof., Kans. State Agr. Coll., 1905–6; asst. prof., Cornell Univ., 1907–13; prof., 1913—. Traveled in Europe and Mexico. *Auth.:* (with Van Rensselaer and Canon) Manual of Home-Making, 1918. *b.* Denver, Colo., Oct. 15, 1874; *d.* Samuel Patrick and Mildred Lewis (Boyd) R.; reared in city. B.S., Kans. State Agr. Coll., 1904; M.A., Columbia Univ., 1909.

Rose, Mary Swartz, assoc. prof. nutr., Teachers' Coll., Columbia Univ., New York City.

Teach. high-sch., Wooster, O., 1899–1901; Fond du Lac, Wis., 1902–5; asst., Teachers' Coll., 1906–7; traveling fellow, 1907–9; instr., 1909–10; asst. prof., 1910–8; assoc. prof., 1918—. Deputy dir. Bur. Conservation of Fed. Food Bd. and N. Y. State Food Comn., New York City. Fellow A. A. A. S. *Auth.:* Laboratory Handbook for Dietetics, 1912; Feeding the Family, 1916; Everyday Foods in Wartime, 1918. *b.* Newark, O., Oct. 31, 1874; *d.* Hiram B. and Martha (Davies) Swartz; reared in small town; *m.* Anton Richard Rose, Sept. 15, 1910; *c.* Richard Collin. B.Lit., Denison Univ., 1901; grad. Mechanics Inst., 1902; B.S., Columbia Univ., 1906; Ph.D., Yale Univ., 1909. Sigma Xi.

Roske, Melvin Parson, co. agrl. agt., Ortonville, Minn.

Instr. manual training, drawing and athletics, Waseca, Minn., 1912–3; instr. agr., State Normal Sch., Emporia, Kans., 1916–8. *b.* Lac-qui-Parle Co., Minn., Jan. 25, 1886; *s.* Chas. August and Sarah (Parson) R.; reared on farm. B.S.A., Univ. Wis., 1916.

Ross, Harold Ellis, prof. dairy ind., Cornell Univ., Ithaca, N. Y.

Asst. dairy ind., Cornell Univ., 1906–7; instr., 1907–9; asst. prof., 1909–12; prof., 1912—. *Auth.:* A Dairy Laboratory Guide, 1910; Laboratory Guide in Market Milk, 1915; Dairy Laboratory Guide for High Schools, 1918. *b.* Leadville, Colo., Oct. 23, 1881; *s.* John Warren and Fanny Jane (Coleman) R.; reared on farm; *m.* Jessie F. Williams, Dec. 25, 1907; *c.* John Warren, Jane Elizabeth, Harold Ellis Jr. B.S.A., Cornell Univ., 1906; M.S.A., 1908. Sigma Xi; Gamma Alpha.

Ross, John Francis, farm supt., Cereal Field Sta., Amarillo, Tex.

Teach. agr., Indian serv., 1903–7; with Off. Cereal Invests., U. S. Dept. Agr., 1908—. *b.* Jewell Co., Kans., Jan. 19, 1873; *s.* Pontus and Ingeborg Olina (Lokke) R.; reared on farm; *m.* Jessie Naomi Stewart, Nov. 21, 1903; *c.* Inga Ann, John Hammond, Flora Helena, Frances Naomi, Stewart. B.S.A., Kans. State Agr. Coll., 1902.

Ross, Orrin F., farmer, Lowville, N. Y.

Farmer and contractor, 1908–13; manag. H. D. Ross & Sons, Lowville, N. Y.; co. agrl. agt., Franklin Co., 1913–5; Oneida Co., 1916–8; manag. Rossdale Farms and supt. of Martinsburg Farms Co. Inc., producers of certified milk. Dir. N. Y. State Dairymen's Assoc., 1912; vice-pres. Lewis Co. Agrl. Soc., 1911–2. Lect. N. Y. Bur. Farmers' Insts., 1911–3. *b.* Lowville, N. Y., Oct. 10, 1885; *s.* Howard D. and Frankie J. (Bowen) R.; reared on farm; *m.* Ella E. Evans, Oct. 10, 1911; *c.* Eloise Estelle, Evelyn Roberta, Howard Evans. Special student, Cornell Univ., 1905–8.

Ross, Pontus Henry, asst. dir. agrl. ext. serv. and co. agt. leader, Univ. Mo., Columbia, Mo.

Expert and agt., Off. Exp. Stas., U. S. Dept. Agr., 1903–7; teach. agr., high-sch., Jewell City, Kans., 1911–2; agt. Leavenworth Co., 1912–6; co. agt. leader, Univ. Mo., 1916—; asst. dir. agrl. ext. serv., 1918—. Pres. Kans. Assoc. Agrl. Agts. *b.* Jewell Co., Kans., June 24, 1879; *s.* Pontus and Ingeborg (Lokke) R.; reared on farm; *m.* Esther Hanson, Mar. 8, 1905; 2d, Bertha Campbell, Aug. 12, 1913; *c.* Philip Harold, Irene, Winifred. B.S., Kans. State Agr. Coll., 1902.

Rothenberger, Alvin Kriebel, co. agrl. agt., Norristown, Pa.

Instr. agr., Perkiomen Sem., 1911–2; agt. Montgomery Co., 1912—. *b.* Worcester, Pa., Jul. 16, 1886; *s.* Edwin S. and Amanda (Kriebel) R.; reared on farm; *m.* Helen Elizabeth Moyer, Sept. 18, 1915; *c.* Margaret Moyer. B.S.A., Cornell Univ., 1911.

Rothgeb, Benton E., sci. asst., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.
b. Luray, Va., May 16, 1875; *s.* Martin and Annie (Early) R.; reared on farm; *m.* Blanche G. Grove, Oct. 7, 1899; 2d, Myra E. Payne, Dec. 26, 1914; *c.* Russell G., Edwin G., Carlton P. Grad. Roanoke Nat. Business Coll., 1898.

Rouse, Thomas Andrew, assoc. prof. an. husb., Clemson Agr. Coll., and asst. Exp. Sta., Clemson College, S. C.
Present position, 1913—. *b.* Crittenden, Ky., Oct. 16, 1890; *s.* Henderson and Frances (Morin) R.; reared on farm. B.S.A., Ohio State Univ., 1913. Alpha Zeta.

Rouzer, Paul Charles, asst. prof. agrl. educ. and asst. state dir. voc. agr., W. Va. Univ., Morgantown, W. Va.
Instr. agr., high-sch., St. Croix Falls, Wis., 1912–5; agt. Tyler Co., W. Va., 1915–8; present position, 1918—. *b.* Chicago, Ill., Oct. 20, 1888; *s.* John C. and Carrie (Strow) R.; reared on farm; *m.* Maud Ella Ketchum, Aug., 1913. B.S.A., Univ. Wis., 1912.

Rowan, Levi John, pres. Alcorn A.&M. Coll., Alcorn, Miss.
Teach. public schs., Miss., 1893–8; head English dept. and pres., Alcorn A.&M. Coll., 1898—. Pres. State Teachers' Assoc. *b.* Rodney, Miss., Aug. 7, 1871; *s.* Sidney and Martha (Walker) R.; reared in town; *m.* Mattie Foote, Jul. 29, 1896; *c.* Ruth Inez, Mattie Hermione, Pearl Bernice, Thelma Bee. B.S., Alcorn A.&M. Coll., 1893; Ph.D., 1910.

Royce, Charles Howard, asst. prof. an. husb., State Coll. Agr., Cornell Univ., Ithaca, N. Y.
Farm manag., N. Y., Pa., Ill., W. Va., 24 yrs.; present position, 1915—. *b.* Mongaup Valley, N. Y., May 10, 1866; *s.* Joshua Pettis and Sarah Elizabeth (Royce) R.; reared on farm; *m.* Nina Barney, Sept, 27, 1893; *c.* Mary Gillespie, Esther Tibbits, Milton Pettis, Elizabeth Hurd. B.S.A., Cornell Univ., 1891; M.S.A., 1892.

Roylance, William M., fruit-grower, merchant and business man, Provo, Utah.
Mem. Utah House, 1897–1900, speaker, 1899–1900; mayor Provo, 1904–5. Del. Baltimore Convention, 1912. *b.* Springville, Utah, Mar. 31, 1865; *s.* Wm. and Lucy (Clucas) R.; reared on farm; *m.* Laura A. Turner, Dec. 23, 1885; 2d, May Zabriskie, Aug. 6, 1902; *c.* Martin W., Merline, Enid, Wm. C.

Ruddick, John Archibald, dairy comnr., Ottawa, Ont.
Traveled in Europe and New Zealand. *b.* Oxford Co., Ont., Sept. 3, 1862; *s.* Lawrence and Marion (Moir) R.; reared on farm; *m.* Harriet Emily Congdon; *c.* Marion C.

Rudnick, Arthur William, ext. prof. dairy manufacturers, Ia. State Coll., Ames, Ia.
Asst. dairying, Kans. State Agr. Coll., 1910–3; asst. prof. dairying, Ia. State Coll., 1913–8; present position, 1918—. Sec. Ia. Buttermakers' Assoc. *b.* Chicago, Ill., Dec. 22, 1887; *s.* John and Wilhelmina (Mueller) R.; reared in city; *m.* Alice Smay, Aug. 7, 1912; *c.* Arthur Wm. Jr., B.S., Ia. State Coll., 1910. Phi Lambda Upsilon; Gamma Sigma Delta.

Rue, Nelson B., co. agrl. agt., Pennington Gap, Va.
Agt. Smythe Co., Va., 1917–8; agt. Lee Co., 1918—. *b.* Harrisburg, Ky., Aug. 17, 1892; *s.* Wallace C. and Mary (Bright) R.; reared in small town; *m.* Elizabeth Waitt, 1914; *c.* Mary Helen, Wallace Waitt. Student Ia. State Coll., 3 yrs. Alpha Sigma Epsilon.

Ruffner, Robert H., ext. dairy husb., Va. Poly. Inst., Blacksburg, Va.
Asst. vet., Md. Exp. Sta., 1908–9; dairyman for Isthmian Canal Comn., Panama, 1909–10; asst. prof. an. husb., Md. Agr. Coll., 1910–3; prof., 1913–8; present position, 1918—. Sec. Md. State Dairymen's Assoc.; dir. Md. Holstein-Friesian Breeders' Assoc. Prof. zootechnics, U. S. Coll. Vet. Surgeons, 1915–8. *b.* Fauquier Co., Va., May 22, 1882; *s.* James W. and Sarah J. (Hogsett) R.; reared on farm; *m.* Frances H. Donovan, June 19, 1911; *c.* Robt. Francis. B.S., Md. Agr. Coll., 1908. Sigma Phi Sigma.

Ruggles, Arthur Gordon, state ent. and ent. Minn. Exp. Sta., University Farm, St. Paul, Minn.
Instr. ent., Univ. Minn., 1902–10; asst. prof., 1910–3; assoc. prof., 1914—; ent., Pa. Chestnut Tree Blight Comn.,

1912–3. Fellow A. A. A. S. *b.* Annapolis Royal, N. S. (naturalized 1908); *s.* Arthur Stewart and Laura Elizabeth (Newcomb) R.; reared in small town; *m.* Bessie Dyer, Jan. 3, 1905; *c.* Elizabeth, Arthur G. Jr., Dyer Newcomb. B.S.A., Cornell Univ., 1901; M.A., 1904. Alpha Zeta; Gamma Alpha.

Rumbold, Caroline, asst. path. sugar plant invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Asst. bot., Univ. Mo., 1908–10. Fellow A. A. A. S. *b.* St. Louis, Mo.; *d.* Thos. Frazier and Charlotte Elizabeth (Ledergeber) R. B.A., Smith Coll., 1901; M.A., Washington Univ., 1903; Ph.D., 1911; Dr. oec. publ., Munich Univ., 1907. Sigma Xi; Phi Beta Kappa.

Rumsey, William Earl, state ent., Morgantown, W. Va.

With ent. dept., W. Va. Exp. Sta., 1893—; state ent., 1913—. Third vice-pres. Am. Assoc. Econ. Ent., 1915. *b.* Van Etten, N. Y., Sept. 9, 1865; *s.* Sylvenus Dusenbury and Clarinda (Shoemaker) R.; reared on farm; *m.* Stella Edna Berkshire, Dec. 23, 1895; *c.* Neal Obeth, Virginia Clarinda. B.S.A., Cornell Univ., 1891.

Rusk, Earl Nilson, co. agrl. agt., Quincy, Ill.

Asst. an. husb., Univ. Mo., 1909–10; farm manag., 1910–3; farm adv., Audrain Co., Mo., 1913–5; agt. Adams Co., Ill., 1915—. *b.* Champaign, Ill., Dec. 17, 1885; *s.* W. H. and Anna L. (Renner) R.; reared on farm; *m.* Selma O. DeWees, Oct. 27, 1909; *c.* Rowena, Leslie, Wm. DeVere, Fred Earl. B.S.A., Univ. Mo., 1909. Alpha Zeta; Chi Beta; Sigma Xi.

Rusk, Henry Perly, asst. prof. beef cattle husb., Univ. Ill., Urbana, Ill.

Asst. an. husb., Univ. Mo., 1908–9; asst. an. husb., Purdue Exp. Sta., 1909–10; assoc. in beef cattle husb., Univ. Ill., 1910–3; asst. prof. and asst. chief in Exp. Sta., 1913—. Sec. Ind. Cattle Feeders' Assoc., 1909–10; sec. Ill. Cattle Feeders' Assoc., 1911–8. *b.* Rantoul, Ill., Jul. 19, 1884; *s.* Wm. H. and Anna L. (Renner) R.; reared on farm; *m.* Edith E. Hartley, June 28, 1911; *c.* Elizabeth Hartley, Martha Hartley. B.S., Univ. Mo., 1908; M.S.A., 1911. Sigma Xi; Alpha Zeta; Alpha Gamma Rho.

Russell, Carl, co. agrl. agt., Ardmore, Okla.

Prof. an. husb. and dairying, Connell State Sch. Agr., 1914–6; agt. Carter Co., 1916—. Sec. Carter Co. Free Fair Assoc. *b.* Muskegee Co., Okla., June 8, 1892; *s.* Campbell and Martha (Shinn) R.; reared on farm; *m.* Elsie Ray, Aug. 19, 1914; *c.* Wm. Campbell. B.S., Okla. A.&M. Coll., 1914.

Russell, Harry Luman, dean Coll. Agr., Univ. Wis., Madison, Wis.

Asst. prof. bact., Univ. Wis., 1893–6; prof., 1896–1907; dean Coll. Agr. and dir. Exp. Sta., 1907—. Mem. Wis. State Bd. For.; State Bd. Immigration, Wis. Tuberculosis Comn. Fellow A. A. A. S. *Auth.:* Public Water Supplies (with F. E. Turneaure), 1908; Experimental Dairy Bacteriology (with E. G. Hastings), 1914; Agricultural Bacteriology (with Hastings), 1915; Outlines of Dairy Bacteriology (with Hastings), 1915. *b.* Poynette, Wis., Mar. 12, 1866; *s.* E. Fred and Lucinda E. (Waldron) R.; reared in village; *m.* H. May Delany, Dec. 20, 1893; *c.* Gertrude Estelle, Eldon Babcock. B.S., Univ. Wis., 1888; M.S., 1890; Ph.D., Johns Hopkins Univ., 1892. Phi Beta Kappa; Sigma Xi.

Rutherford, William John, prof. farm manag. and dean Coll. Agr., Univ. Sask., Saskatoon, Sask.

Mem. Sask. Live-Stock Bd.; Sask. Educ. Comn., 1912–3; Sask. Agrl. Instr. Com.; Sask. Winter Fair Bd.; Dominion Conservation Comn.; Adv. Council in Agr. Del. conference of universities of British Empire, London, 1912; Rural Credits Conference, Chicago, 1916. Sent to Europe as special comnr. by Sask. Educ. Com., 1912. *Auth.:* Prairie Agriculture. *b.* Madrid, N. Y., Jan. 9, 1868; *s.* John A. and Esther (Grey) R.; reared on farm. *c.* 5.

Ruzek, Charles Vladis, assoc. prof. soils, Ore. Agr. Coll., Corvallis, Ore.

Asst. prof. agron., Univ. Ark., 1909–13; asst. agron., Ark. Exp. Sta., 1909–13; present position, 1913—. *b.* Chicago, Ill., Jan. 26, 1887; *s.* Jerome and Anna (Schader) R.; reared on farm and in city; *m.* Marie Farness, 1911; *c.* Jerome F., Chas. V. Jr. B.S.A., Univ. Wis., 1909.

S

Sackett, Walter George, bact., Colo. Exp. Sta., Fort Collins, Colo.

Prof. nat. sci., Meredith Coll., Raleigh, N. C., 1902–4; asst. prof. bact. and hygiene and asst. bact. Exp. Sta., Mich. Agr. Coll., 1904–8; present position, 1908—. Fellow A. A. A. S. *Auth.:* Chapters on Bacterial Diseases of Plants in Marshall's Microbiology, 1911–7. *b.* Sterling, Ill., Jul. 5, 1880; *s.* Walter C. G. and Emma L. (Hagey) S.; reared in city; *m.* L. Margaret Ferguson, 1905; *c.* Mariana Wray. B.S., Univ. Chicago, 1902; Logan Research Fellow, Univ. Chicago, 1917–8. Phi Beta Kappa; Sigma Xi; Alpha Zeta.

Salisbury, Schuyler Marsh, co. agrl. agt., Medina, O.

Instr. dairying, N. C. A.&M. Coll., 1913–5; asst. prof. an. husb., Ohio State Univ., 1915–8; co. agt., 1918—. *b.* Collinwood, O., June 29, 1889; *s.* Joseph G. and Lina (Marsh) S.; reared on farm; *m.* Golda Ree Wade, June 29, 1909; *c.* Glenn W., Genevieve. B.S.A., Ohio State Univ., 1913.

Salmon, Samuel Cecil, prof. farm crops, Kans. State Agr. Coll., Manhattan, Kans.

Special agt., U. S. Dept. Agr., 1908–11; plant physiologist, 1911–3; present position, 1913—. *b.* Emery, S. D., Jul. 25, 1885; *s.* A. G. and Lucy (Merrill) S.; reared on farm; *m.* Ada Miner, Mar. 1908; *c.* Miner Ray, Mary Aurolyn. B.S., S. D. State Coll., 1907.

Sammis, John Langley, assoc. prof. dairy husb., Univ. Wis., Madison, Wis.

Instr. chem., Univ. Ill., 1900–5; asst. prof. dairy husb., Univ. Wis., 1907–12; assoc. prof., 1912—. *b.* Winona, Minn., Jan. 1, 1873; *s.* John Bangs and Malvina Augusta (Newman) S.; reared in suburbs; *m.* Flora Elizabeth Curtis, June 30, 1898; *c.* Marguerite, Malvina Elizabeth, Josephine, John Curtis. B.S., Univ. Ill., 1897; M.S., 1899; Ph.D., Univ. Wis., 1906. Phi Lambda Upsilon.

Sampson, H. O., state asst. for agrl. educ., Dept. Public Instr., Trenton, N. J., and prof. agrl. educ., Rutgers Coll., New Brunswick, N. J

Teach. agr., high-sch., Waterford, Pa., 1904–6; asst. agrl. educ., U. S. Dept. Agr., 1906–8; princ. Sch. Agr., Inter. Correspondence Schs., Scranton, Pa., 1908–14; prof. agr., Winthrop Normal Coll., Rock Hill, S. C., 1915–8; present position, 1918—. *Auth.:* Effective Farming, 1918. *Ed.,* agrl. text-books for Inter. Correspondence Schs., 1908–14. *b.* Dodgeville, Wis., Apr. 21, 1879; *s.* Wm. and Agnes (Shipley) S.; reared in small city; *m.* Harriet Louise Nairn, May 29, 1908; *c.* Louise Nairn, H. O. Jr. B.S., Ia. State Coll., 1903; B.S.A., 1904. Phi Gamma Delta.

Samuelson, Samuel Ernest, distr. agrl. agt., Hebron, Neb.

Agrl. dir., high-sch., Gothenburg, Neb., 1913–4; princ. and instr. agr., Lynd Consolidated Sch., Minn., 1914–6; supt. Waldorf Consolidated Sch., Minn., 1916–8. *b.* Wayne Co., Neb., Mar. 6, 1889; *s.* August and Emma (Anderson) S.; reared on farm; *m.* Bessie Elma Manzer, Dec. 27, 1916. Special student, Univ. Minn., 1915.

Sanders, Alvin Howard, ed. The Breeders' Gazette, 542 S. Dearborn St., Chicago, Ill.

Mem. U. S. Comn., Paris Expos., 1900; vice-chm. U. S. Tariff Bd., 1908–12; mem. Agrl. Adv. Bd. of Ill., 1917. Vice-pres. Inter. Live-Stock Expos. Chevalier of the Order of Leopold, Belgium. *Auth.:* History of Shorthorn Cattle, 1900; The Story of the Herefords, 1914; At the Sign of the Stock Yard Inn, 1915; The Road to Dumbiedykes, 1916; A History of the Percheron Horse (with Wayne Dinsmore), 1917. *b.* Keokuk Co., Ia., Sept. 8, 1860; *s.* James H. and Martha (Rodgers) S.; reared on farm; *m.* Elizabeth A. Hildebrand, Apr. 25, 1882; *c.* Elizabeth, Louise, Alva. LL.B., Northwestern Univ., 1881; D.Agr., Univ. Ill., 1906; LL.D., Kenyon Coll., O., 1910. Chi Phi.

Sanders, James G., state zool. and sec. Am. Assoc. Hort. Insps., State Capitol, Harrisburg, Pa.

Fellow and sci. asst., Ohio State Univ., 1902–5; expert, U. S. Bur. Ent., 1905–10; prof. ent., Univ. Wis., 1910–5; state ent., Wis., 1915–6; state zool., Pa., 1916—; sec. Am. Assoc. Hort. Insps., 1913. *b.* Louisville, O., Jul. 17, 1880; *s.* Franklin P. and Elma J. (Gindlesperger) S.; reared on farm; *m.* Anna Salome Wingate, Aug. 15, 1906; *c.* Elma Salome. Ph.B.,

Otterbein Univ., O., 1901; M.A., Ohio State Univ., 1903. Sigma Xi; Delta Upsilon.

Sanderson, Ezra Dwight, prof. rural organization, State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Asst. state ent., Md., 1898–9; ent., Del. Exp. Sta., 1899–1902; state ent., Tex. A.&M. Coll., 1902–4; prof. zool. and ent., N. H. A.&M. Coll., 1904–10; dir. N. H. Exp. Sta., 1907–10; dean Coll. Agr., W. Va. Univ., 1910–5; dir. W. Va. Exp. Sta., 1912–5; present position, 1918—. Past pres. Am. Assoc. Econ. Ent. *Auth.:* Insects Injurious to Staple Crops, 1902; Insect Pests of Farm, Garden and Orchard, 1911; Elementary Entomology (with C. F. Jackson), 1911; School Entomology (with L. M. Peairs), 1917. *b.* Clio, Mich., Sept. 25, 1878; *s.* John Phillip and Alice Gertrude (Wright) S.; reared in city; *m.* Anna Cecilia Blandford, Sept. 19, 1899. B.S., Mich. Agr. Coll., 1897; B.S.A., Cornell Univ., 1898; fellow sociol., Univ. Chicago, 1915–8. Sigma Xi.

Sandhammer, Frank, co. agrl. agt., Manistee, Mich.

Teach. agr., high-sch., Hart, Mich., 1913–4; state high-sch., Rushford, Minn., 1914–6; agt. Manistee Co., Mich., 1916—. *b.* Chicago, Ill., Feb. 1, 1891; *s.* John A. and Mary A. (Hennecke) S.; reared on farm; *m.* Imo Zoe Morrow; *c.* Jean May. B.S., Mich. Agr. Coll., 1913.

Sandige, John Richard, co. agrl. agt., Claypool, Ariz.

Asst. agrst., agrl. sch., Los Angeles, Calif., 1911; Temple Normal Sch., Ariz., 1912–4; asst. bot., Univ. Ariz. and teach. sch. gardens, State Deaf and Dumb Sch., 1914–5; chg. war garden, Inspiration, Ariz., 1917–9. *b.* Edwardville, Ill., Aug. 19, 1892; *s.* Abner W. and Alice (Lambert) S.; reared on farm; *m.* Florence Dunbar, Jul. 15, 1918. B.S., Univ. Mo., 1917. Sigma Kappa Zeta.

Sandsten, E. P., prof. hort., Colo. Agr. Coll., Fort Collins, Colo.

Assoc. prof. hort., Md. Agr. Coll., 1902; prof. hort., Univ. Wis., 1903–11; commercial hort., Mont., 1911–3; prof. hort., Ala. Poly. Inst., 1913–4; present position, 1914—. State hort. of Colo. Sec.-treas. Colo. Potato Growers' Assoc. Traveled in Mexico, 1 yr. investigating rubber, tobacco, sugar industries. *b.* Kalmar, Sweden, Sept. 15, 1868 (naturalized 1894); *s.* J. and Charlotte (Sandsten) S.; reared on farm; *m.* Pearl Dew, Sept. 12, 1903; *c.* Emilie Dew. B.S., Univ. Minn., 1895; M.S., 1898; Ph.D., Cornell Univ., 1903. Sigma Xi; Alpha Zeta.

Sanford, F. Hobart, prof. silviculture and dendrology, Mich. Agr. Coll., E. Lansing, Mich.

Commercial nursery, 1904–6; asst. for., Mich. Agr. Coll., 1906–7; instr., 1907–9; asst. prof., 1909–13; acting prof., 1913–4; assoc. prof. for., 1914—. *b.* Tompkins, Mich., May 18, 1880; *s.* Frank M. and Minnie G. (Townley) S.; reared on farm; *m.* Cara Farmer, Jan., 1906; *c.* Marjorie, Genevieve, Frank, Cara Jean. B.S., Mich. Agr. Coll., 1904; M.F., 1913.

Sanford, Herbert Luther, ent. insp., Fed. Hort. Bd., U. S. Dept. Agr., Washington, D. C.

b. Ithaca, N. Y., Aug. 6, 1883; *s.* Chas. Judson and Helen Butler (Brown) S.; reared in city; *m.* Nellie LaBarre Dougherty, June 26, 1912. B.S.A., Cornell Univ., 1910.

Sargent, Christopher Gilbert, prof. rural educ. and state dir. voc. educ., Colo. Agr. Coll., Fort Collins, Colo.

Co. supt. schs., Mess Co., Colo., 1908–12; present position, 1912—. *b.* Vincennes, Ia., Mar. 25, 1872; *s.* Stephen and Mary (Noel) S.; reared on farm; *m.* Mary L. Bandy, Sept. 27, 1899; *c.* Cecil, Helen, Roger, Homer, Howard. A.B., Parsons Coll., Fairfield, Ia., 1899; Pd.M., State Teach. Coll., Greeley, Colo., 1912.

Sargent, Forrest H., co. agrl. agt., Phillips, Wis.

Farm manag., Washburn Memorial Orphan Asylum, S. Minneapolis, 2 yrs.; chg. dairy dept., North West Exp. Sta., Crookston, 1911–4; farm manag., Rochester, Minn., 1914–7; agt. Price Co., Wis., 1917—. *b.* Granite Falls, Minn., Dec. 6, 1883; *s.* Chas. A. and Rose (Hart) S.; reared on farm; *m.* Mary O. Briggs, Aug. 16, 1911; *c.* Herbert Briggs, Maxwell Ronald. B.S.A., Univ. Minn., 1911.

Sauer, Herman O., co. agrl. agt., Linton, N. D.

Princ. schs., Ceylon, Minn., 1911–3; Pettibone, N. D., 1914–6; Reform Sch.,

N. D., 1916–8. *b.* Thor, Ia., Sept. 19, 1879; *s.* A. A. and Marie (Krohn) S.; reared on farm. B.A., Luther Coll., Decorah, Ia., 1903; grad. theol., Luther Sem., Hamline, Minn., 1906.

Saunders, Charles E., Dominion cerealist, Cent. Expl. Farm, Ottawa, Ont.
b. London, Ont., Feb. 2, 1867; *s.* Wm. and Sarah Agnes (Robinson) S.; reared in city; *m.* Mary Blackwell, Dec. 28, 1892. B.A., Univ. Toronto, 1888; Ph.D., Johns Hopkins Univ., 1891.

Saunders, William D., head dairy and an. husb. dept., Va. Poly. Inst., Blacksburg, Va.
In chg. creamery, Va. Poly. Inst.; adj. prof. and prof. dairy husb. and head dept. Sec. Va. State Dairymen's Assoc., 1906–14; dairy and food comnr., Va., 1908–14. *b.* Hunter Hall, Va., Sept. 3, 1865; *s.* Peter and Elizabeth Lewis (Dabney) S.; reared on farm; *m.* Bettie Montgomery, Jul. 12, 1899; *c.* Robt. N., Wm. D., Elizabeth L., Isabella F. Student Univ. Va., Cornell Univ.

Savage, Charles Frederic, co. sec. Y. M. C. A., Deep River, Conn.
b. Baraboo, Wis., Jul. 1, 1877; *s.* Joseph N. and Arabella B. (Hurlbut) S.; reared on farm; *m.* Ethel E. Rich, Sept. 15, 1906; *c.* Donald H., F. Waldo. A.B., Brown Univ., 1904. Phi Beta Kappa; Phi Delta Theta.

Savage, Cole, co. agrl. agt., Scottsboro, Ala.
Teach. rural schs., Ala., 2 yrs. Farming, Wayne, Ill., 1 yr. *b.* Fayette, Ala., Jan. 17, 1895; *s.* Victor and Julia Nicholas (Shirley) S.; reared on farm. Student Ala. Poly. Inst., 1915–6.

Savage, Elmer Seth, prof. an. husb., State Coll. Agr., Cornell Univ., Ithaca, N. Y.
Asst. an. husb., Cornell Univ., 1907–8; instr., 1908–10; asst. prof., 1910–3; prof., 1913—. *Auth.:* Feeds and Feeding Manual, 1915; Feeding Dairy Cattle. *Ed.,* Tompkins Co. Breeders' Journal. *b.* Lancaster, N. H., June 15, 1884; *s.* John and Katherine M. (Daley) S.; reared on farm; *m.* Clara Blanford, Sept. 8, 1908; 2d, Genevieve Boyle, June 29, 1916; *c.* Ruth Cecilia, Clara Katherine, Mary Gene. B.S.A., N. H. A.&M. Coll., 1905; M.S.A., Cornell Univ., 1909; Ph.D., 1911. Sigma Xi; Kappa Sigma; Alpha Zeta; Gamma Alpha.

Sawhill, William H., co. agrl. agt., Spirit Lake, Ia.
Stock examiner, Bur. An. Ind., U. S. Dept. Agr., 1907–9; agrl. ext. dept., Univ. Ida., 1912–3. *b.* Claysville, Pa., Oct. 6, 1884; *s.* John Edgar and Minnie Agnes (Garrett) S.; reared on farm; *m.* Lillian Lewis, Jan. 1, 1908; *c.* Edgar Lewis, W. H. Jr. B.S., Ia. State Coll. Phi Kappa Psi.

Sawyer, Louis, beef cattle specialist, U. S. Dept. Agr., Univ. Ark., Fayetteville, Ark.
Foreman cattle ranch, Burns, Ore., 1 yr.; manag. ranch, Boise, Ida., 1 yr.; present position, 1917—. With U. S. Naval Aviation Reserve Force, 1918—. *b.* Eaton, O., Feb. 21, 1893; *s.* W. S. and Hattie (Haven) S.; reared on farm. B.S.A., Ore. Agr. Coll., 1913; M.S.A., Ia. State Coll., 1916. Gamma Sigma Delta.

Scammell, Harold Besnard, cranberry grower, Toms River, N. J.
Asst. to state ent., Minn. Exp. Sta., 1910–1; ent. asst., U. S. Dept. Agr., 1913–8. Sec.-treas. Am. Cranberry Growers' Assoc. *b.* Brooklyn, N. Y., Oct. 7, 1885; *s.* Frederick Ernest and Margaret Amelia (McAdam) S.; reared in town; *m.* Elizabeth Cutler, June 11, 1912; *c.* Margaret Cutler, Frederick Ernest. B.S., Colo. Agr. Coll., 1910. Alpha Zeta.

Scandrett, Milton Elwood, co. agrl. agt., Portland, Ind.
Instr. agr., high-sch., Winnebago, Minn., 1914–8. *b.* Avoca, Ia., Sept. 13, 1889; *s.* Wm. R. and Lucinda (Smith) S.; reared on farm; *m.* Clara W. Dillman, Nov. 24, 1916; *c.* Elwood D. B.S., Ia. State Coll., 1914.

Schalk, Arthur Frederick, prof. vet. sci., N. D. Agr. Coll., Agricultural College, N. D.
Asst. prof. vet. sci., N. D. Agr. Coll., 1910–6; prof., 1916—, and dean sch. Vet. Med. and Surgery, and vet. Exp. Sta. Dir. N. D. State Serum Inst.; bact. N. D. Live-Stock Sanitary Bd., 1918. *b.* Hamilton, O., June 19, 1880; *s.* John Lawrence and Anna (Eichler) S.; reared on farm; *m.* Ethel Brown, Dec. 22, 1908; *c.* Arthur Frederick Jr. D.V.M., Ohio State Univ., 1908. Alpha Psi.

Scherer, Norman W., asst. prof. for., Ohio State Univ., Columbus, O.

Mem. editorial bd., Ohio Journal of Science. *b.* Sandusky, O., June 25, 1888; *s.* Jacob and Louisa (Siegrist) S.; reared in city; *m.* Hilda Gundlach, Sept. 2, 1915. B.Sc., Univ. Mich., 1910; M.S.F., 1912. Alpha Pi Upsilon.

Scheuerle, John Adolf, manag. Eastern States Agrl. and Ind. League, 292 Worthington St., Springfield, Mass.

Sec. Eastern States Farmers' Exchange; clerk New England Fruit-Growers' Exchange. *b.* Fontinell, Ia., May 30, 1875; *s.* Gottliebe and Mary (Sutter) S.; reared on farm and in town; *m.* Austice Newton, 1906; *c.* Ella Augusta, John Newton, Warren Eugene. B.A., Oberlin Coll., 1901; B.D., Yale Divinity Sch., 1906.

Schnacke, Ralph Powell, co. agrl. agt., Larned, Kans.

Farmer, Stafford and Barton Cos., Kans., 1905–13; agt. Pawnee Co., 1916—. *b.* Hiawatha, Kans., Feb. 1, 1884; *s.* Leon C. and Winnifred (Davis) S.; reared in town; *m.* Lilah A. Smith, Nov. 18, 1909; *c.* Mary Alice. B.S.A., Kans. State Agr. Coll., 1916. Gamma Sigma Delta; Phi Kappa Phi.

Schneck, Henry William, asst. prof. veg. crops, State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Instr. veg. gard., Cornell Univ., 1913–7; asst. prof., 1917—. *b.* Wis., June 18, 1889; *s.* Geo. W. and Frances (Kaul) S.; reared in city; *m.* Mae Clark, June 28, 1915; *c.* Eleanor Frances. B.S.A., Univ. Wis., 1913; M.S.A., Cornell Univ., 1914.

Schock, Oliver D., librarian Public Serv. Comn. of Pa., Harrisburg, Pa.

Asst. sec. and special agt., Pa. State Bd. Agr., 18 yrs.; chief clerk, Dept. Agr., 5 yrs.; deputy dairy and food comnr., 5 yrs. Ex-pres. Pa. State Editorial Assoc. *b.* Hamburg, Pa., Apr. 28, 1858; *s.* Nathan S. and Amelia K. (Nies) S.; reared on farm; *m.* Sarah R. Kepner, 1879; *c.* Harvey Earl, Bertha Estelle.

Schoene, William Jay, state ent. and ent. Exp. Sta., Va. Poly. Inst., Blacksburg, Va.

Asst. and assoc. ent., N. Y. Agr. Exp. Sta., Geneva, 1905–13; orchard insp., Ill., winter, 1905–6; state ent., Va., 1913—; acting dir. Exp. Sta., 1914–6. *b.* Henderson, Ky., Jul. 27, 1879; *s.* W. M. and Ellen (Jay) S.; reared in town; *m.* R. B. Yankey, June 3, 1907; *c.* Chas. Andrew, Sara, Mary Margaret. B.A., Univ. Ky., 1905; M.S., Univ. Chicago, 1910.

Schooley, Paul Tofel, co. agrl. agt., Charlottesville, Va.

Orchardist with Arcadia Orchards Co., Spokane, Wash., Pattee-Palmer Estate, Medford, Ore. Del. to Farmers' Union Convention, 1917. *b.* Pittsburg, Pa., Jul. 31, 1892; *s.* John R. and Chadwich (Tafel) S.; reared in city and country. B.S.A., Ore. Agr. Coll. Alpha Tau Omega.

Schoppe, William Freeman, prof. poultry husb., Mont. State Coll., Bozeman, Mont.

Asst. poultry husb., R. I. Exp. Sta., 1907–8; poultryman, Mont. Exp. Sta., 1908–11; asst. prof. an. ind. in poultry, Univ. Me., 1911–3; present position, 1913—. Chm. State Bd. Poultry Husb. *b.* N. H., 1883; *s.* H. S. and M. E. (Cushman) S.; reared on farm; *m.* M. D. Pilsbury, Aug. 4, 1910; *c.* Wm. F. Jr., Robert Pilsbury. B.S., Univ. Me., 1907; M.S., 1913. Sigma Alpha Epsilon; Alpha Zeta.

Schulte, John Ignace, sci. administrative asst., Off. Exp. Stas., States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Asst. hort., Ia. State Coll., 1895–7; asst. ed. field crops, Experiment Station Record and sci. asst., U. S. Dept. Agr., 1897—. Mem. Inter. Jury, Paris Expos., 1900; Chevalier du Merite Agricole. Farmer, Va., 1906—. *b.* New Vienna, Ia., Oct. 11, 1869; *s.* Herman F. and Caroline (Waldmann) S.; reared on farm; *m.* Mary Frances Colbath; *c.* Mary Carolyn. B.Agr., Ia. State Coll., 1895.

Scoates, Daniel, prof. agrl. engin., Miss. A. & M. Coll., Agricultural College, Miss.

Asst. agrl. engin., Mont. State Coll., 1910. *Auth.:* Farm Machinery Laboratory Manual, 1913; Agricultural Surveying Laboratory Manual, 1913; Farm Motor Laboratory Manual, 1918; Concrete Construction Laboratory Manual, 1918. *b.* Crown Point, Ind., Jan. 27, 1882; *s.* Wm. Richard and Emily Townsend (Coffin) S.; reared in city and on farm; *m.* Mary Eleanor Lamb, Nov. 1910; *c.* Wm.

Daniels, Mary Eleanor, Alice Emily. B.S., Ia. State Coll., 1910; A. E., 1915.

Scofield, Carl Schurz, in chg. western irrig. agr., U. S. Dept. Agr., Washington, D. C.
Ed., Journal Washington Acad. Sci., 1912–4. Traveled in Europe, Algeria, Haiti. *b.* Bloomington, Minn., Feb. 5, 1875; *s.* J. D. and Caroline Samantha (Damon) S.; reared on farm; *m.* Emma Scott, Sept. 8, 1903; *c.* Francis, John, Marcia. B.S.A., Univ. Minn., 1900.

Scott, A. Floyd, co. agrl. agt., Douglas, Wyo.
Agt. Johnson Co., Wyo., 1915–8. Supt. agrl. div., Wyo. State Fair, 1916. With Engin. Corps, Nat. Army, 1918—. *b.* Eldora, Ia., Oct. 5, 1889; *s.* John W. and Alice (Webb) S.; reared in city and country; *m.* Ella Williams, Nov. 16, 1917. B.S., Ia. State Coll., 1913. Beta Theta Pi.

Scott, Charles Anderson, state for. and prof. for., Kans. State Agr. Coll., Manhattan, Kans.
For. expert and superv., U. S. For. Serv., 1901–8; prof. for., Ia. State Coll., 1908–10; present position, 1910—. *b.* Westmoreland, Kans., Jan. 30, 1875; *s.* Adam and Elizabeth (Anderson) S.; reared on farm; *m.* Perley B. Jewett, Jan. 30, 1907; *c.* Sybella Adelaide, Sarah Elizabeth, Hazle Marie. B.S.A., Kans. State Agr. Coll., 1901; grad. student Yale For. Sch. Alpha Zeta.

Scott, John M., vice-dir. and an. industrialist, Fla. Exp. Sta., Gainesville, Fla.
Asst. an. husb., N. Mex. A. & M. Coll., 1903–6; present position, 1907—. *b.* Westmoreland, Kans., Nov. 1, 1877; *s.* Adam and Elizabeth (Anderson) S.; reared on farm; *m.* Mary L. O'Daniel, June 28, 1905; *c.* John M. Jr. B.S., Kans. State Agr. Coll., 1903.

Scott, Roy S., co. agrl. agt., Roundup, Mont.
Farmer and stockman, Neb., 1 yr., S. D., 10 yrs. *b.* Aurora, Neb., Apr. 3, 1883; *s.* Roy S. and Kate (Giltner) S.; reared in town and country; *m.* Ethel Peirce, Jul. 17, 1917. B.S.A., Univ. Ill., 1917.

Scott, Verner Ephraim, state leader in dairy ext., Univ. Nev., Reno, Nev.
Instr. an. husb., Dunn Co. Sch. Agr., Menomonie, Wis., 1911–2; asst. an. husb., Univ. Nev., 1912–3; chg. an. husb., 1913–4; state leader dairying, 1914—. *b.* Chilton, Wis., May 2, 1878; *s.* Henry K. and Mary C. (Ware) S.; reared on farm; *m.* Ethel Robinson, Aug. 17, 1903; *c.* Lionel R., Lawrence E. B.S.A., Univ. Wis., 1911.

Scott, William Moore, specialist in standardization of grades for fruits and vegetables, Bur. Markets, U. S. Dept. Agr., Washington, D. C.
State ent. of Ga., 1898–1903; path., U. S. Dept. Agr., 1903–11; present position, 1916—. Fruit-grower, Hancock, Md. *Assoc. ed.*, Phytopathology, 3 yrs. *b.* Sugar Grove, Va., May 30, 1873; *s.* Levi M. and Amanda A. (Edmondson) S.; reared on farm; *m.* Mary Florence Roop, Mar., 1900. B.S., Va. Poly. Inst., 1896; M.S. 1898.

Scovill, Hiram Thompson, certified public accountant, asst. prof. accounting, Univ. Ill., Urbana, Ill.
In chg. accounting instr., Univ. Ill., 1913—. Sec.-treas. Am. Assoc. Univ. Instrs. in Accounting. *Auth.:* Farm Accounting, 1918. *b.* near Leaf River, Ill., Feb. 22, 1885; *s.* Wm. P. and Josephine (Thompson) S.; reared on farm and in village; *m.* Edith Eliza Stewart, Aug. 31, 1912; *c.* Wm. Stewart, Mary Josephine. A.B., Univ. Ill., 1908. Phi Beta Kappa; Beta Gamma Sigma.

Scoville, Gad Parker, asst. prof. farm manag., State Coll. Agr., Cornell Univ., Ithaca, N. Y.
Teach. high-schs., Fresno, Calif., 1910–2; farm bur. manag., Chemung Co., N. Y., 1912–4; present position, 1914—. *b.* Varysburg, N. Y., May 5, 1885; *s.* John Wesley and Lizzie (Watson) S.; reared on farm; *m.* Hazel Perine, June 25, 1913; *c.* Elizabeth, Theresa. B.S., Cornell Univ., 1910.

Scudder, Henry Desborough, prof. and chief farm manag., Ore. Agr. Coll. and Exp. Sta., Corvallis, Ore.
Sci. asst., U. S. Dept. Agr., 1902–4; instr. sci., high-sch., Cloquet, Minn., 1904–5; instr. agron. and asst. agron., Kans. State Agr. Coll. and Exp. Sta., 1906–7; prof. and chief agron., Ore. Agr. Coll. and Exp. Sta., 1907–16; prof. and chief soils and farm manag., 1916–8; prof. and chief farm manag., 1918—. Chm. State Pure Seed Bd. *b.* Moberly, Mo., Dec. 17,

1881; *s.* Clarence O. and Amelia C. (Beyer) S.; reared on farm; *m.* Leila K. McCotter, Aug. 26, 1907; *c.* Donald M., Robt. D., Katherine M. B.S.A., Univ. Ill., 1902. Alpha Zeta.

Scully, Charles B., farmer, Almont, Mich.
Mem. exec. com., State War Preparedness Bd.; mem. Mich. Senate; pres. Mich. State Assoc. Farmers' Clubs. Farmers' inst. lect., Mich. Agr. Coll., 6 yrs. *b.* Almont, Mich., June 17, 1878; *s.* John B. and Charity A. (Bristol) S.; reared on farm; *m.* Mabel M. Hallock, Mar. 1, 1900; *c.* Leona V., Clinton W., Merwin H.

Seabrook, Charles Frank, truck farmer, Bridgeton, N. J.
Pres. and general manag. Seabrook Farms Co. *b.* Bridgeton, N. J., May 28, 1881; *s.* Arthur P. and Elizabeth (Riley) S.; reared on farm; *m.* Norma D. Ivans; *c.* Belford, Courtney, Thelma, John.

Sealy, James Robert, co. agrl. agt., Sylvester, Ga.
b. Bluffton, Ga., Dec. 19, 1896; *s.* C. S. and Lena S.; reared on farm. B.S.A., Univ. Ga., 1917. Delta Tau Delta.

Sears, Fred C., prof. pom., Mass. Agr. Coll., Amherst, Mass.
Asst. hort., Kans. Exp. Sta., 1893–7; prof. hort., Utah Agr. Coll., 1897; dir. Nova Scotia Sch. Hort., 1897–1904; prof. hort., Nova Scotia Agr. Coll., 1904–7; present position, 1907—. Vice-pres. for Mass., New England Fruit Show, 1909–17. Manager fruit farm, 1908—. *Auth.:* Productive Orcharding, 1914. *b.* Lexington, Mass., May 11, 1866; *s.* Thos. B. and Mary (Wellington)S.; reared on farm; *m.* Ruth T. Stokes, Oct. 19, 1897; *c.* Florence Hart, Elizabeth Kent. B.S., Kans. State Agr. Coll., 1892; M.S., 1896.

Seaton, Laurence F., prof. agrl. engin., Univ. Neb., Lincoln, Neb.
b. Seaton, Ill., Mar. 26, 1887; *s.* J. H. and Ida (Palmer) S.; reared on farm; *m.* Pearl Erwin, June 24, 1913; *c.* Marjorie E. B.S. in M.E., Univ. Neb., 1911.

Sechrist, Edward Lloyd, apicultural asst., Bur. Ent., U. S. Dept. Agr., Washington, D. C.
Instr. agr. and mech., Umtali Ind. Sch., Umtali, Rhodesia, S. Africa, 4 yrs.; commercial beekeeper, Calif., 7 yrs. *b.* W. Salem, O., Aug. 15, 1873; *s.* Henry and Julia A. (Shoemaker) S.; reared on farm; *m.* Ada B. Himmelright, 1901; *c.* Hazel, Paul, Alice. Student Ohio Northern Univ., 2 yrs.

Secrest, Edmund, chief dept. for., Ohio Agr. Exp. Sta., Wooster, O.
Sci. asst., U. S. For. Serv., 1902–5. Studied for. conditions in Europe. *b.* Randolph, Kans., Aug. 24, 1882; *s.* Edward and Sophia (Axelton) S.; reared on farm; *m.* Helen Hoover, Oct. 16, 1912; *c.* Mary Hoover, Edith Sophia. B.S., Kans. State Agr. Coll., 1902.

Seeley, Dewey Alsdorf, meteorologist and instr. meteorology, Mich. Agr. Coll., E. Lansing, Mich.
With U. S. Weather Bur., 1898—; instr. meteorology, Bradley Poly. Inst., Peoria, Ill., 1905–9; present position, 1910—. *b.* Pontiac, Mich., Aug. 4, 1875; *s.* Chas. L. and Stella J. (Alsdorf) S.; reared on farm; *m.* Edith L. Sellers, Nov. 10, 1898; *c.* Marian E., Stuart W., Dewey Maxwell. B.S., Mich. Agr. Coll., 1898; M.S., 1917.

Seitz, Charles, E. agrl. engin., ext. div., Va. Poly. Inst., Blacksburg, Va.
Specialist in land drainage, ext. div., Va. Poly. Inst., 1914–6; agrl. engin., 1917—. Served in Va. Nat. Guard on Mexican border. *b.* Reno, Nev., Nov. 6, 1891; *s.* Edward L. and Frances H. (Leonard) S.; reared in town; *m.* Nancy D. Hughes, Jan. 23, 1918. B.S., Univ. Nev. Sigma Alpha Epsilon.

Selby, Augustine Dawson, bot., Ohio Agr. Exp. Sta., Wooster, O.
Supt. schs., Huntington, W. Va., 1884–6; princ. high-sch., Ironton, O., 1886–7; teach. bot. and chem., high-sch., Columbus, O., 1890–4; bot. and chem., Ohio Agr. Exp. Sta., 1894–1902; bot., 1902—. Fellow A. A. A. S.; fellow Bot. Soc. Am. Pres. Am. Phytopathological Soc., 1911; pres. O. Acad. Sci., 1901; sec. Columbus Hort. Soc., 1891–4. Farm operator. *b.* Athens Co., O., Sept. 2, 1859; *s.* Warren and Emily (Garretson) S.; reared on farm; *m.* Libbie Glover, Dec. 15, 1883; *c.* Warren Fowke. B.S., Ohio State Univ., 1893. Phi Kappa Psi.

Selvig, Conrad George, supt. Northwest Sch. Agr. and Exp. Sta. of Univ. Minn., Crookston, Minn.

Supt. schs., Glencoe, Minn., 1907–10; present position, 1910—. Served as volunteer, Spanish-American War, 1898. Vice-pres. N. W. Minn. Agrl. Assoc.; vice-pres. Red River Valley Development Assoc.; pres. Red River Valley Dairymen's Assoc.; sec.-treas. Red River Valley Live-Stock Breeders' Assoc.; treas. Minn. Educ. Assoc. *b.* Rushford, Minn., Oct. 11, 1877; *s.* Gunder C. and Marie (Hognestad) S.; reared on farm and in town; *m.* Marion E. Wilcox, June 17, 1903; *c.* Helen Marion, Margaret Elizabeth, Conrad Geo. A.B., Univ. Minn., 1907; M.A., 1908. Phi Delta Kappa.

Seulke, Karl John, asst. prof. an. husb., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Instr., Ind. Univ., summer 1913; teach. fellow, Penn. State Coll., 1913–4; instr. an. husb., Cornell Univ., 1914–6; asst. prof., 1916—. *b.* Seymour, Ind., Feb. 15, 1890; *s.* August H. and Marie (Heins) S.; reared on farm; *m.* Mayme Dee Kahle, Aug. 24, 1913. B.S.A., Purdue Univ., 1913; M.S.A., Penn. State Coll., 1914; Ph.D., Cornell Univ., 1916. Alpha Gamma Rho; Theta Alpha.

Severance, George, prof. agr., Wash. State Coll., Pullman, Wash.

Instr. agr., Mich. Agr. Coll., 1901–2; instr. agr., Wash. State Coll., 1902–4; asst. prof., 1904–5; prof. agron., 1905–8; acting head dept. agr., 1908–9; supt. farms for A. C. Bohrnstedt Co., Lethbridge, Alta., 1910–1; supt. W. Wash. Exp. Sta., 1911–3; head dept. agr., Wash. State Coll., 1913—. Mem. State Dairy and Food Comn., 1908–9. Sec. Wash. State Grain Growers', Shippers' and Millers' Assoc., 1908–9, 1914; sec. Inland Empire Stock Breeders' Assoc., 1904. *b.* Walled Lake, Mich., Feb. 4, 1874; *s.* Thos. Chalkley and Martha (McCall) S.; reared on farm; *m.* Ethel Eslick Espy, Aug. 28, 1907; *c.* Percy Howard, Mabel Grace, Helen Katherine. B.S.A., Mich. Agr. Coll., 1901.

Severin, Harry Charles, prof. ent., state ent. and chief nursery insp., S. D. State Coll., Brookings, S. D.

Instr., Ohio State Univ., 2 yrs.; asst. to state ent. Ill., summer 1907; present position, 9 yrs. *b.* Milwaukee, Wis., Mar. 28, 1885; *s.* Henry and Augusta (Schultz) S.; reared in city. B.A., Univ. Wis., 1906; M.A., Ohio State Univ., 1907. Sigma Xi.

Severson, Burns Oscar, assoc. prof. an. breeding, Kans. State Agr. Coll., Manhattan, Kans.

Instr. an. husb., Penn. State Coll., 1910–2; asst. prof., 1912–5; assoc. prof., 1915–8; present position, 1918—. Treas. Pa. Sheep Breeders' and Growers' Assoc. *b.* Stoughton, Wis., Dec. 9, 1887; *s.* Henry and Mary (Holverson) S.; reared on farm; *m.* Mary Kyle England, June, 21, 1913; *c.* Burns O. Jr. B.S., Univ. Wis., 1910; M.S., Penn. State Coll., 1915; grad. student, Univ. Ill., 1917–8. Sigma Xi; Alpha Tau Omega.

Sevey, Glenn C., ed. New England Homestead, Russell, Mass.

Sec. New England Farmers' War Council. *Auth.:* Bean Culture; Peas and Pea Culture. *b.* Greenbush, Mich., Mar. 15, 1881; *s.* John C. and Emma (McClure) S.; reared on farm; *m.* Marie Vance, Mar. 1904; *c.* John C., Elaine C. B.S., Mich. Agr. Coll., 1903. Alpha Zeta.

Sewell, Franklane Lorraine, staff artist, Reliable Poultry Journal, Niles, Mich.

Painter under Bonnatt, Julien Acad., winter 1892; sketched from life fowls in zool. gards. and exhibitions for Am. and British live-stock and poultry journals; illustrated for American Agriculturist, 1891–2 and World's Fair, Chicago, 1893; illustrator to Feathered World and Poultry, London, England, and International Poultry Journal, Petrograd, Russia. Illustrator N. Y. Poultry Show, 1890—; Boston, 1896—; Pan American Poultry Exhibition, Buffalo, 1901; St. Louis Expos., 1904; Panama-Pacific Inter. Poultry Exhibition, 1915. Artist to Am. Poultry Assoc. in Standard Perfection, editions, 1905, 1910, 1915. *b.* Evanston, Ill., Sept. 8, 1866; *s.* Alfred Lorraine and Sara (Lane) S.; reared in town; *m.* Jessie Kean, Dec. 1893; *c.* Ralph Lorraine, Ruth Marguerite, Sara Elizabeth, Educ. art insts.

Seymour, Edward Loomis Davenport, agrl. ed., Hempstead, N. Y.

On staff World's Work, 1911–2; Country Life in America and The Garden

Magazine, 1913–8; mem. Foreign Press Bur., Com. on Public Information, 1918—. *Auth.:* Garden Profits, 1911; The Home Garden, 1917. *Ed.*, Farm Knowledge — The Farmers' Own Cyclopedia, 1918. *b.* Boston, Mass., Apr. 29, 1888; *s.* Wm. S. and May (Davenport) S.; reared in city and country; *m.* Anne G. Southard, Jan. 17, 1912. B.S.A., Cornell Univ., 1909. Alpha Zeta.

Shafer, George D., asst. prof. and research assoc. ent., Exp. Sta., Mich. Agr. Coll., E. Lansing, Mich.

Teach. high-sch. and normal, 1900–5; research asst. and instr. ent., Mich. Agr. Coll., 1908–13; research asst. and asst. prof., 1913–6; research assoc. and sec. com. graduate work, 1916—; absent on indefinite leave, 1917—. *Ed.*, Report Mich. Acad. Sci., 1909–11. *b.* Muncie, Ind., Dec. 25, 1874; *s.* John Willard and Mary (Howell) S.; reared on farm; *m.* Grace Hoover, Sept. 1912. A.B., Ind. State Univ., 1900; A.M., Stanford Univ., 1906; Ph.D., Cornell Univ., 1908. Sigma Xi.

Shambaugh, Jessie Field, rural worker, Clarinda, Ia.

Co. supt. schs., Page Co., Ia., 1906–12; nat. rural worker and sec. Y. W. C. A., N. Y. City, 1912–7. *Auth.:* The Corn Lady, 1907; Community Civics, 1915. On editorial staff, The Farmers' Wife. *b.* Page Co., Ia., June 26, 1881; *d.* S. E. and Celestin (Eastman) Field; reared on farm; *m.* I. W. Shambaugh, June 1917. A.B., Tabor Coll., Ia., 1903.

Shamel, Archibald Dixon, physiologist in chg. fruit improvement invests., U. S. Dept. Agr., Riverside, Calif.

Chg. farm crop dept., Univ. Ill., 1898–1902; chg. tobacco invests., U. S. Dept. Agr., 1902–9; fruit invests., 1909—. Inventor tobacco seed separator, 1904; steam-pan, 1904; originator of method of individual tree performance record keeping, 1910; inventor humidifier for storage rooms, 1914; co-inventor tobacco stalk cutter, 1917. Traveled in Cuba and Porto Rico, 1904, to study tobacco; Brazil, 1914, to study tropical fruits. *Auth.:* Manual of Corn Judging, 1900. *b.* near Taylorville, Ill., Oct. 15, 1878; *s.* Conrad and Caroline (Alkire) S.; reared on farm; *m.* Agnes F. Brewer, Sept. 25, 1917; *c.* Carrol Agnes, Norman A., John D. B.S., Univ. Ill., 1898. Sigma Alpha Epsilon; Alpha Zeta.

Shanahan, John Daniel, crop technologist, 42 Broadway, New York City.

Grain insp. dept., Buffalo Chamber of Commerce, 1887–98; chief dept., 1898–1906; crop technologist in chg. div. grain standardization, U. S. Dept. Agr., 1906–10; in British India investigating oil seeds ind., 1910–1; W. Africa, investigating palm oil industry, 1912–3; grain business, Duluth, Minn., 1914–6; grain expert on headquarters staff, Food Administration Grain Coop., New York City, 1917—. Mem. Wis. Grain and Warehouse Comn., 1905–6. *b.* Buffalo, N. Y., Oct. 24, 1864; *s.* Daniel W. and Mary L. (Ulrich) S.; *m.* Minnie F. Hair, Feb. 1, 1902.

Shantz, Homer LeRoy, plant physiologist, Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Instr. biol., Colo. Coll., 1901–2; instr. agrl. bot., Univ. Neb., 1903–4; instr. bot., Univ. Mo., 1905–7; prof. bot. and bact., Univ. La., 1908–9; present position, 1909—. Fellow A. A. A. S. *b.* Kent Co., Mich., Jan. 24, 1876; *s.* Abraham K. and Mary E. (Ankney) S.; reared on farm; *m.* Lucia Moore Soper, Dec. 25, 1901; *c.* Homer L. Jr., Benjamin Soper. B.Sc., Colo. Coll., 1901; Ph.D., Univ. Neb., 1905. Sigma Xi.

Shattuck, Charles Houston, prof. for., Univ. Calif., Berkeley, Calif.

Instr. physics and chem., Campbell Coll., 1895–8; prof. biol. and geol., vice-pres. and registrar, 1898–1903; prof. nat. hist., Washburn Coll., 1904–8; prof. bot. and for., Clemson Agr. Coll., 1908–9; prof. for., Univ. Ida., 1909–17; dean Coll. Letters and Sci., 1914–7; prof. for., Univ. Calif. and tech. adv. field parties, U. S. Geol. Survey, 1917—. *b.* Vandalia, Mo., Nov. 21, 1867; *s.* Warren Chas. and Matilda Catherine (Houston) S.; reared on farm; *m.* Maud Elizabeth Stackhouse, Aug. 15, 1895. B.S., Campbell Coll., 1894; M.S., 1898; Ph.D., Univ. Chicago, 1908; Biltmore For. Sch., 1908.

Shaw, Charles Fredrick, prof. soil tech. and chg. soil survey for Calif., Univ. Calif., Berkeley, Calif.

Asst. in soils, Cornell Univ., 1905–6;

sci. in soil survey, U. S. Bur. Soils, 1906–12; collaborator soil survey, 1912—; instr. agron., Penn. State Coll., 1907–9; asst. prof., 1909–13; present position, 1913—. Fellow A. A. A. S., Am. Geographic Soc. *b.* W. Henrietta, N. Y., May 2, 1881; *s.* Fred F. and Mary A. (Tawalt) S.; reared on farm; *m.* Helen S. Hosterman, June 19, 1909. B.S.A., Cornell Univ., 1906. Alpha Zeta.

Shaw, Fred Clifford, co. agrl. agt., Bennington, Vt.

Farm manag. and teach. agr., Farm and Trades Sch., Thompson's Isl., Boston, 1913–6. *b.* Sunderland, Vt., Dec. 27, 1889; *s.* Herbert Needham and Helen Elisabeth (Hard) S.; reared on farm and in town; *m.* Helen Gale Wood, Sept. 2, 1916; *c.* Ann Putnam. B.S., Cornell Univ., 1913. Alpha Zeta.

Shaw, Jacob Kingsley, research pom., Mass. Exp. Sta., Amherst, Mass.

Instr. hort. and chem., Baron de Hirsch Agr. Sch., Woodbine, N. J., 1902–4; asst. bot. and hort., N. J. Exp. Sta., 1904–5; acting asst. prof. hort., Univ. Mo., 1905–6; instr. hort., N. H. A. & M. Coll., 1906–7; asst. hort., Mass. Exp. Sta., 1908–11; research pom., 1911—. Dairy and fruit farmer, Northfield, Vt., 1899–1902. *b.* Northfield, Vt., Aug. 5, 1877; *s.* Wm. O. and Elisabeth (Kingsley) S.; reared on farm; *m.* Bertha T. Simpson, Aug. 23, 1905; *c.* Doris Elisabeth, Edna Adams, Genevieve Elaine. B.S.A., Univ. Vt., 1899; M.S., Mass. Agr. Coll., 1908; Ph.D., 1911.

Sheap, John Vernon, co. agrl. agt., Jackson, Mich.

Manag. Sheap-Johnson Seed Co., Harrisville, Mich., 1909–10. *b.* Reading, Mich., Sept. 26, 1884; *s.* Edward J. and Anna M. (Van Neida) S.; reared in town and country; *m.* Grace Louise Harroun, Dec. 17, 1907; *c.* Edward Jay, John Vernon Jr. Student Mich. Agr. Coll., 3 yrs.

Shear, Cornelius Lott, plant path., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Fellow A. A. A. S. Sec.-treas. Am. Phytopath. Soc. Del. to Inter. Congress Bot., Vienna, 1905. Fruit-grower, Vienna, 1907—. *b.* Coeymans Hollow, N. Y., Mar. 26, 1865; *s.* Henry L. and Mary (Speenburgh) S.; reared on farm; *m.* Avis M. Sherwood, Dec. 25, 1890; *c.* Sherwood Wm., Deming Jonas, Mary Beatrice, Geo. Mryon, Dorothy Margaret, Cornelius Barrett. B.S., Univ. Neb., 1897; M.A., 1901; Ph.D., George Washington Univ., 1906. Sigma Xi.

Shear, Sherwood William, sci. asst. in marketing and distribution, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Pharmacists' mate, Hospital Corps, U. S. Navy, 1918—. Fruit farmer, Vienna, Va., 4 yrs. *b.* Alcove, N. Y., Jul. 2, 1892; *s.* Cornelius Lott and Avis Morrison (Sherwood) S.; reared on farm. B.S.A., Univ. Wis., 1918.

Shedd, Claude K., assoc. prof. agrl. engin., Ia. State Coll., Ames, Ia.

Ex-sec.-treas. Am. Soc. Agrl. Engin. *b.* Pickrell, Neb., Nov. 27, 1884; *s.* Chas. M. and Nellie M. (Steele) S. reared on farm; *m.* Mary F. Currier, June 30, 1910; *c.* Adella L., Esther M., Robt. K. B.S.A., Univ. Neb., 1909; B.S. in Agr. Engin., Ia. State Coll., 1914. Sigma Xi; Alpha Zeta.

Shedd, Oliver March, assoc. prof. chem. and research chem. Exp. Sta., Univ. Ky., Lexington, Ky.

Chem., Ky. Exp. Sta., 1902–11; research chem., 1911—. Acting chm., Lexington Sect., Am. Chem. Soc., 1917. Expert in Council of National Defense, 1917—. *b.* Lexington, Ky., Mar. 8, 1880; *s.* John Riley and Phoebe (Hicks) S.; reared in city; *m.* Carlotta Sharp, Oct. 17, 1906. B.S., Univ. Ky., 1901; M.S., 1904.

Sheets, Earl Wooddell, prof. an. husb. and chief dept., Exp. Sta., W. Va. Univ., Morgantown, W. Va.

Teach. rural and public schs., 1902–6. *Assoc. ed.*, W. Va. Farmer. *b.* Lost Creek, W. Va., Dec. 23, 1886; *s.* Arthur and Anna Jane (Wooddell) S.; reared on farm; *m.* Leda Cordelia Atkeson, Oct. 29, 1912; *c.* Jane Atkeson. B.S.A., W. Va. Univ., 1911; M.S., Univ. Ill., 1914. Sigma Xi; Kappa Alpha.

Sheffer, Lafayette Miles, prof. agrl. educ., Univ. Ga., Athens, Ga.

Princ. graded sch., Boxville, Ky., 1912; princ. high-sch., Hardinsburg, 1914–5; ext. force, Univ. Ky., summer 1917. *b.* Morganfield, Ky., Mar. 21,

1888; *s.* N. G. and Anne (Floyd) S.; reared on farm. B.S.A., Univ. Wis., 1917.

Sheldon, John Lewis, prof. bot., W. Va. Univ., Morgantown, W. Va.

Instr., Mt. Hermon Boys' Sch., 1892–4; instr. bot., prep. sch., Univ. Neb., 1898–9; head dept. nat. hist., Neb. State Normal Sch., 1899–1900; instr. agrl. bot., Univ. Neb., 1900–3; prof. bact., W. Va. Univ., 1903–7; prof. bot. and bact., 1907–13; prof. bot., 1913—; plant path., W. Va. Exp. Sta., 1903–7. Fellow A. A. A. S. *b.* Voluntown, Conn., Nov. 10, 1865; *s.* Samuel H. and Lucy A. (Lewis) S.; reared on farm; *m.* Clara Adams Fleming, Aug. 21, 1907; *c.* Earl Fleming. B.Ped., B.Sc., Ohio Northern Univ., 1895; B.Sc., Univ. Neb., 1899; A.M., 1901; Ph.D., 1903. Sigma Xi; Phi Beta Kappa; Kappa Psi.

Shepperd, John H., agrst. and vice-dir. N. D. Exp. Sta., Agricultural College, N. D.

Prof. agr., N. D. Agr. Coll., 1893–1904; dean and prof. agr., 1904–15; agrst., N. D. Exp. Sta., 1893–1905; agrst. and vice-dir., 1905—. Pres. farmers' inst. bd., 1900–15. *Auth.:* (with McDowell) Elements of Agriculture, 1906. On staff Orange Judd Farmer, 1892–3. *b.* Chariton, Ia., Jan. 12, 1869; *s.* John W. and Clerenda Jane (Sanderson) S.; reared on farm; *m.* Adele Francis Taylor, Jul. 3, 1895. B.S., Ia. State Coll., 1891; M.S.A., Univ. Wis., 1893.

Sherard, Samuel Hodges, dairy specialist, Clemson Agr. Coll., Clemson College, S. C.

Adj. prof. biol., Junior Coll., Univ. Philippines, 1908–9; expert trop. agr., Bur. Agr., Manila, 1909–13; supt. dem. and breeding sta., P. I., 1912–3; agt. Washington Co., Ga., 1914–18. Studied agrl. conditions in Europe, Mexico, Japan, China, Philippines, Palestine, Egypt, 1911. *b.* Laurens S. C., Sept. 18, 1886; *s.* Wm. Yancey and Annie Francis (Halloway) S.; reared in town and on farm; *m.* Lewise Lipscomb, Aug. 29, 1911; *c.* Ann, Talulah. B.S.C., Clemson Agr. Coll., 1908; D.V.S, London, Ont., 1916.

Sherbakoff, Constantine Dmitriev, assoc. plant path., Fla. Exp. Sta., Gainesville, Fla.

Present position, 1914—. *b.* Russia, May 24, 1878 (naturalized 1918); *s.* Dmitry Ivanon and Anna A. (Stolarov) S.; reared on farm; *m.* May Gibson, Nov. 1916. B.S.A., Cornell Univ., 1911; Ph.D., 1915.

Sherman, Franklin Jr., chief in ent., N. C. Exp. Sta., Raleigh, N. C.

Instr. ent., N. C. A.&M. Coll., 1902–4; prof. ent. and zool., Ont. Agr. Coll., 1905–6; present position, 1906—. Former pres. Nat. Assoc. Hort. Insp.; N. C. State Acad. Sci.; N. C. State Beekeepers' Assoc.; sect. on apiculture, Am. Assoc. Econ. Ent. *b.* Fairfax Co., Va., Nov. 2, 1877; *s.* Franklin and Caroline M. C. (Alvord) S.; reared on farm; *m.* Grace Berry, May 12, 1903; *c.* Franklin, Dallas Berry, Joseph Edgar. B.S.A., Cornell Univ., 1900; M.S. (hon.), Md. Agr. Coll., 1912.

Sherman, James Morgan, bact., Bur. An. Ind., U. S. Dept. Agr., Washington, D. C.

Instr. bact., Univ. Wis., 1912–4; asst. prof. bact., Penn. State Coll., 1914–7; present position, 1917—. *b.* Ash Grove, Va., May 6, 1890; *s.* Franklin and Caroline (Alvord) S.; reared on farm; *m.* Gertrude Hendricks, Aug. 3, 1916. B.S., N. C. A.&M. Coll., 1911; M.S., 1912; Ph.D., Univ. Wis., 1916. Kappa Sigma; Alpha Zeta; Gamma Alpha.

Sherman, Wells Alvord, specialist in market surveys, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

State statistical agt., U. S. Dept. Agr. for Va. and W. Va., 1895–1900; sci. asst. in statistics, U. S. Dept. Agr., 1900–3; examiner in agr., U. S. Civil Serv. Comn., 1903–10; sci. asst. cotton handling and marketing, Bur. Plant Ind., U. S. Dept. Agr., 1912; asst. in market surveys, U. S. Dept. Agr., 1913; present title, 1914—. *b.* Ash Grove, Va., Jul. 19, 1868; *s.* Franklin and Caroline M. C. (Alvord) S.; reared on farm; *m.* Elsie M. Besley, May 23, 1895; *c.* Caroline Elizabeth, Mary Collins, Elsie Besley, Martha Thatcher, Wells A. Jr., Grace Whitney. Grad. Greylock Inst., S. Williamtown, Mass., 1887.

Sherwin, Melvin Ernest, prof. soils, N. C. A. & E. Coll., W. Raleigh, N. C.

Student asst. agron., Univ. Mo., 1906–8; asst. cereal invests., Univ. Calif., 1908–9; asst. prof. agron., Univ. Me., 1909–10; present position, 1910—. Pres. N. C. Drainage Assoc. *b.* DeSmet, S. D., Jul. 17, 1881; *s.* S. O. and Mary Adelaide (Shedd) S.; reared on farm; *m.* Edith Dodson, 1908; *c.* Edith Evelyn, Mary

Ernestine, Dorothy Chase. B.S.A., Univ. Mo., 1908; M.S., Univ. Calif., 1909. Alpha Zeta.

Sherwood, Ross M., ext. specialist poultry husb., Kans. State Agr. Coll., Manhattan, Kans.

Asst. poultry husb., Ohio Exp. Sta., 1910–2; instr. to assoc. prof., Ia. State Coll., 1912–4; ext. specialist, Kans. State Agr. Coll., 1914—; prof. in chg. poultry dept., 1916–7. Sec. poultry com., State Council for Defense. *b.* Shabbona, Ill., Apr. 16, 1886; *s.* S. H. and Ida M. (Van Velzoe) S.; reared on farm; *m.* Ida L. Spencer, Jul. 26, 1911; *c.* Robt. S. B.S., Ia. State Coll., 1910. Gamma Sigma Delta.

Shields, Richmond Lee, prof. agr., Peabody Coll. for Teachers, Nashville, Tenn.

Formerly prof. an. husb., Clemson Agr. Coll. *b.* Watkins, O., Feb. 8, 1878; *s.* Thos. Pride and Elizabeth Jane (Ford) S.; reared on farm; *m.* Edna Louise Duncan, May 8, 1902; *c.* Elisabeth Duncan, Virginia Vaden, Alfreda Watkins, Frances Richmond. B.S.A., Ohio State Univ., 1907. Delta Tau Delta.

Shinn, Charles Howard, for. examiner, U. S. Bur. For., Northfork, Calif.

Staff San Francisco Bulletin, 1877–9; Calif. Horticulturist, 1879–80; insp. exp. stas., Univ. Calif., 1890–2; with U. S. Bur. For., 1902—; head for. ranger, Sierras, 1903–4; for. superv., 1904–10; for. examiner, 1910—. First sec. State Hort. Soc. of Calif., 1880–2. Book reviewer for several Calif. newspapers. *Auth.:* Pacific Rural Handbook, 1879; Land Laws of Mining Districts, 1884; Mining Camps, 1885; Cooperation on the Pacific Coast, 1888; Story of a Mine, 1897; Intensive Horticulture in California, 1901; Recent Outdoor Literature, 1901. *b.* Austin, Tex., Apr. 29, 1852; *s.* James and Lucy Ellen (Clark) S.; reared on farm; *m.* Julia C. Tyler, Jul. 31, 1888; *c.* Ruth Wetmore (Mrs. Chas. Kasch). Educ. Univ. Calif. and Johns Hopkins Univ.

Shinn, James R., co. agrl. agt. and dir. ext. serv., Spokane, Wash.

Asst. pom., Ill. Exp. Sta., 1904–7; prof. hort., Univ. Ida., 1907–9; agt. Spokane Co., Wash., 1913—. Sec. Ida. State Hort. Assoc., 1909–10. *b.* Mattoon, Ill., May 22, 1880; *s.* Geo. B. and Cornelia M. (Ricketts) S.; reared on farm; *m.* Edna M. Cassevens; *c.* Esther, Ben, Frances. B.S., Univ. Ill., 1904. Sigma Xi.

Shoesmith, Vernon M., general manag., The Jennings Farm, Bailey, Mich.

Asst. and asst. prof., Kans. State Agr. Coll., 1901–6; agron., Md. Exp. Sta., 1907–8; assoc. prof. agron., Ohio State Univ., 1908–10; prof. farm crops, Mich. Agr. Coll., 1910–7; present position, 1917—. Sec.-treas. Mich. Exp. Assoc. *Auth.:* The Study of Corn, 1913. *b.* Leslie, Mich., Dec. 27, 1876; *s.* Geo. B. and Louisa A. (Cummins) S.; reared on farm; *m.* Elsie M. Morrison, Dec. 23, 1903; *c.* Margaret, Dorothy, Helen. B.S., Mich. Agr. Coll., 1901.

Shoffner, Charles Pennypacker, assoc. ed. The Farm Journal, Philadelphia, Pa.

Sec. The Liberty Bell Bird Club. Former ed., The Country Boy. *b.* Norristown, Pa., Nov. 14, 1868; *s.* John and Jean (Boyle) S.; reared in town and on farm; *m.* Katherine H. Stallman, Oct. 10, 1891; *c.* Edith K. (Mrs. J. W. Clokey). Studied Spring Garden Inst. Art Sch., 3 yrs.

Shofner, Austin Williams, co. agrl. agt., Pulaski, Tenn.

Teach. sci. and agr., high-sch., Tyner, Tenn., 1909–17. *b.* Shelbyville, Tenn., Jul. 13, 1888; *s.* Monroe and Mattie (Williams) S.; reared on farm; *m.* Rachel Conner, Sept. 6, 1911; *c.* Emory, Austin Jr. L. I., Peabody Teachers Coll., 1907; B.S.A., Univ. Tenn., 1909. Phi Kappa Phi.

Shorthill, J. W., dir. and sec. Neb. Farmers' Coop. Grain and Live-Stock Assoc., Securities Bldg., Omaha, Neb.

Farmer, Kans., until 1902. *b.* Kans., 1871; *s.* John A. and Mildred (Ridenour) S.; reared on farm; *m.* Hattie V. Murphy, 1892; *c.* Ray, Lucile, Alan.

Shrock, Mannes S., co. agrl. agt., Pendleton, Ore.

Dairyman and fruit-grower, 1899–1904, 1911–4. Sec. Ore. Dairymen's Assoc., 1911; pres., 1912. *Ed.,* Western Farmer, 1907; field ed., Pacific Homestead, 1904–6. *b.* La Grange Co., Ind., Mar. 16, 1873; *s.* Samuel J. and Rebecca (Yoder) S.;

reared on farm; *m.* Minnie D. Thomas, Aug. 28, 1897; *c.* Wayne Thos., Marvin D., Lynn Samuel, Paul Vern.

Shumway, Chester Raymond, co. agrl. agt., Ravenna, O.
Dir. agrl. dept., Mankato high-sch., Minn., 1912–7; agt. Portage Co., O., 1917—. *b.* Marshall Co., Ia., May 20, 1884; *s.* Howard Haywood and Anna M. (Roberts) S.; reared on farm; *m.* Ethel McDonald, June 20, 1912; *c.* Margaret Eloise. B.S., Ia. State Coll., 1911. Delta Theta Sigma; Delta Sigma Rho.

Shutt, Frank Thomas, Dominion chem. and asst. dir., Expl. Farms, Ottawa, Ont.
Fellow in chem., Univ. Toronto, 1885–7; present position, 1887—. Fellow, Inst. of Chem., England, Chem. Soc., England, Chem. Soc., America, Soc. Chem. Ind., England, Royal Soc. of Canada. Pres. chem. and physics sect., Royal Soc. of Canada, 1916–7. British judge of cereals, World's Fair, Chicago, 1893. *b.* London, England, Sept. 15, 1859; *s.* Wm. Denis and Charlotte (Cawthorn) S.; reared in city. B.A., Univ. Toronto, 1885; M.A., 1886; D.Sc., 1914.

Sieglinger, John Beardsley, asst. agrst., U.S. Dept. Agr., Exp. Sta., Woodward, Okla.
b. Newton, Kans., Aug. 24, 1893; *s.* Fred and Hannah (Beardsley) S.; reared on farm; *m.* Helen M. Knox, Mar. 1, 1916; *c.* John Harris. B.S., Okla. A.&M. Coll., 1913; M.S.A., Kans. State Agr. Coll., 1915.

Simms, Bennett Thomas, prof. vet. med., Ore. Agr. Coll. and vet. Exp. Sta., Corvallis, Ore.
Instr. physiology and path., N. C. A. & M. Coll., 1911–3; present position, 1913—. Sec. Ore. Vet. Med. Assoc. *b.* Ramsey, Ala., Jan. 26, 1888; *s.* John Thos. and N. Epes (Thomas) S.; reared on farm. D.V.M., Ala. Poly. Inst., 1911. Alpha Zeta; Gamma Sigma Delta; Alpha Psi.

Simons, Lloyd Rhoderick, agrst., States Relations Serv., U. S. Dept. Agr., Washington, D. C.
Chg. agrl. dept., high-sch., Gowanda, N. Y., 1911–4; agt. Nassau Co., 1914–6; present position, 1916—. *b.* Sardinia, N. Y., Nov. 8, 1886; *s.* Julian S. and Alice A. (Bigelow) S.; reared on farm; *m.* Lucy Ada Phelps, Dec. 27, 1914; *c.* Howard Julian. B.S.A., Cornell Univ., 1911.

Simpson, Harry Herman, co. agrl. agt., Longmont, Colo.
With Bur. An. Ind., U. S. Dept. Agr., June–Dec., 1907; prof. an. husb., N. Mex. A.&M. Coll., 1907–14; co. agt., 1914—. *b.* Knoxville, Ia., Oct. 14, 1882; *s.* Geo. and Caroline (Miller) S.; reared on farm; *m.* Elizabeth Oliver, Jul. 27, 1910; *c.* Stephen, Harry H., Johu Carl. B.S.A., Ia. State Coll., 1907. Delta Theta Sigma.

Simpson, Otto Gerald, asst. prof. dairy manufactures, Ore. Agr. Coll., Corvallis, Ore.
Asst. chem., Ore. Exp. Sta., 1906–9; instr. dairying, Ore. Agr. Coll., 1909–13; asst. prof., 1913—. Sec. Western Dairy Instrs. Assoc., 1916. *b.* Airlie, Ore., Jul. 15, 1885; *s.* I. M. and Tabitha (Morrison) S.; reared on farm; *m.* Adah McDonald, Oct. 25, 1907; *c.* Donald G., Paul B. B.S.A., Ore. Agr. Coll., 1905. Gamma Sigma Delta.

Sims, Newell LeRoy, prof. sociol. and political sci., Univ. Fla., Gainesville, Fla.
Ordained Christian minister, Aug., 1904; pastor rural church, Brown Co., O., 1903–5; Carthage, Mo., 1905–8; pastor, Cincinnati, O., 1909–10; pastor community church, Scarsdale, Westchester Co., N. Y., 1911–3; pastor Grandview Heights Congregational Church, Columbus, O., 1913–4; present position, 1914—. *Auth.:* A Hoosier Village, 1912; Ultimate Democracy and Its Making, 1917. *b.* Jamestown, Ind., Dec. 3, 1878; *s.* Chas. N. and Elizabeth (McClew) S.; reared on farm; *m.* Florence Anna McNutt. A.B., Tri State Coll., 1901; A.B., Univ. Ky., 1905; A.M., Columbia Univ., 1910; Ph.D., 1912; grad. Union Theol. Sem., 1912.

Sink, Stanley Ben, co. agrl. agt., Valparaiso, Ind.
Instr. agron., Univ. Me., 1915–7; asst. prof., 1917. Sec. Dairy Producers' Assoc., Porter Co., Ind. *Auth.:* Laboratory Exercises in Soil Physics, 1917. *b.* Wharton, O., Nov. 4, 1889; *s.* E. M. and Amelia (Pickett) S.; reared on farm; *m.* Mable Van Buren, Dec. 25, 1916. B.S.A., Ohio State Univ., 1915.

Sirrine, Frank Atwood, farmer and special agt., N. Y. Agr. Exp. Sta., Riverhead, N. Y.

Asst. bot., Ia. Exp. Sta., 1890; asst. ent. and zool., Ia. State Coll., 1891–4; ent., N. Y. Agr. Exp. Sta., 1894–1902; farmer, L. I., 1902—. *b.* Newark, Ill., Nov. 22, 1861; *s.* Jacob and Mary L. (Myers) S.; reared on farm; *m.* Lillian L. Smith, June 1, 1899; 2d, Christine Ross Mostow, Sept. 21, 1917; *c.* Dorothy Van Tassell, Henry Alanson, Robt. McDarrow, Frank A. Jr. B.S., Ia. State Coll., 1891; M.S., 1893.

Sisson Septimus, prof. comp. anat., Ohio State Univ., Columbus, O.

Dem. of anat., Ont. Vet. Coll., 1891–9; prof. zool. and vet. sci., Kans. State Agr. Coll., 1899–1901; present position, 1901—. Fellow A. A. A. S. *Auth.:* A Text-Book of Veterinary Anatomy, 1910; A Veterinary Dissection Guide, 1911; The Anatomy of the Domestic Animals, 1914. *Translator:* Ellenberger, Baum und Dittrich's Anatomie der Tiere für Künstler, 1906. *b.* Gateshead, England, Oct. 2, 1865; *s.* Geo. and Mary (Arnott) S.; reared in town and country; *m.* Katherine Oldham, Oct. 12, 1892. S.B., Univ. Chicago, 1898; V.S., Ont. Vet. Coll, 1891; Univ. Berlin, 1905–6. Sigma Xi.

Sjogren, Oscar Warner, assoc. prof. agrl. engin., Univ. Neb., Lincoln, Neb.

Instr. forge work, Univ. Neb., 1909–12; instr. drainage and irrig., 1914–5; present position, 1915—. *b.* Hildreth, Neb., Aug. 15, 1887; *s.* C. J. and Ida (Johnson) S.; reared on farm; *m.* Alfreda Engdahl, Sept. 1916; *c.* Eunice Lorene. B.Sc., Univ. Neb., 1915. Sigma Xi.

Skeels, Homer Collar, bot. asst., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

b. Grand Rapids, Mich., Jul. 31, 1873; *s.* Dorr and Anna (Stilwell) S.; reared in city; *m.* Jennie Shaddick, Jul. 31, 1901; *c.* Alice Anna. B.S., Mich. Agr. Coll., 1898.

Skinner, John Harrison, dean Sch. Agr. and chief an. husb., Purdue Univ., LaFayette, Ind.

Farm manag., 1897–9; asst. agrst., Purdue Exp. Sta., 1899–1901; instr., Univ. Ill., 1901–2; head dept. an. husb., Purdue Univ., 1902–7; dean Sch. Agr., 1907—. *b.* Romney, Ind., Mar. 10, 1874; *s.* Wm. H. and Mary (Alexander) S.; reared on farm; *m.* Mary Edna Throckmorton, Sept. 3, 1903; *c.* John H. Jr., Mary E., Wm. E., Robt. E. B.S.A., Purdue Univ., 1897. Sigma Xi.

Skinner, Lee Bronson, fruit-grower, Dunedin, Fla.

Mem. exec. com., State Council Defense. *b.* Watertown, Wis., Jan. 27, 1861; *s.* Calvin B. and Frances M. (Lee) S.; reared in town; *m.* Mary E. Bruce; *c.* Elizabeth, Bronson C., Robt. E., Francis L. Studied Northwestern Univ., Watertown, Wis.

Skinner, Lewellyn Terry, sec. ext. serv., Univ. Neb., Lincoln, Neb.

Asst. state leader junior ext., Univ. Neb., 1914–6; junior ext. leader, 1916–7; sec. ext. serv., 1917—. Sec. teachers of agr., Neb. State Teachers' Assoc., 1916–7. *b.* Warrentown, Va., Feb. 26, 1886; *s.* John Thomas and Lucelia (Francis) S.; reared on farm and in town; *m.* Winifred Bennison, Feb. 10, 1916; *c.* Barbara Belle. B.Sc., Univ. Neb., 1914. Sigma Xi; Alpha Zeta.

Sladen, F. W. L., apiarist, Dominion Expl. Farms, Ottawa, Ont.

Auth.: Queen-Rearing in England, 1904; The Humble Bee, 1912; Bees and How to Keep Them, 1916. Traveled in India, 1895. *b.* London, England, May 30, 1876; *s.* J. and Lady Sarah (Lambart) S.; reared on farm; *m.* Violet Barton, 1902; *c.* Dermot, Rudolph, Rosalie.

Slate, William L. Jr., prof. agron. and agron. Exp. Sta., Conn. Agr. Coll., Storrs, Conn.

Asst. agron., N. H. Exp. Sta., 1909–11; assoc. prof. agron., Univ. Me., 1911–3; present position, 1913—. Pres. New England sect., Am. Soc. Agron. *b.* Norwalk, O., Jan. 15, 1884; *s.* Wm. L. and Orpha F. (Norris) S.; reared on farm and in city; *m.* Edna E. Jackson, June 16, 1915. B.S.A., Ohio State Univ., 1909. Alpha Gamma Rho.

Sleeth, Earle Campbell, co. agrl. agt., Jefferson, O.

Instr. agr. and sci., Stanton Coll., Stanton, Ky., 1914–5; instr. agrl. chem. and soils, Ohio State Univ., 1915–7; co. agt., 1917—. *b.* Cairo, W. Va., Sept. 5, 1881; *s.* David M. and Mattie J. (Newlin) S.; reared in town and on farm; *m.* Anna McKirahan, June 24, 1908.

B.S.A., Univ. Neb., 1914; M.S., Ohio State Univ., 1917. Alpha Zeta.

Sloan, David Kinney, co. agrl agt., Towanda, Pa.
b. Orangeville, Pa., Dec. 10, 1887; *s.* E. H. and Gertrude (White) S.; reared on farm; *m.* Irene Ikeler, Oct. 4, 1911; *c.* 1 son, 1 daughter. B.S.A., Penn. State Coll., 1910. Alpha Zeta.

Sloan, Robert Lee, co. agrl. agt., Colfax, La.
Asst. dir. farmers' insts., N. C. Dept. Agr., 1914–5; princ. Bienville Parish Agrl. Sch., 1916. *b.* Charlotte, N. C., Mar. 29, 1889; *s.* H. Lawrence and Katherine L. (Morris) S.; reared on farm. B.S., N. C. A.&M. Coll., 1913.

Smalley, Harold R., co. agrl. agt., Fort Wayne, Ind.
Asst. chem. in soils and crops, Ind. Exp. Sta., 1911–3; agrl. agt., Starke Co., Ind., 1913–5; asst. agrst. and farm manag. invest., U. S. Dept. Agr., Washington, 1915–6; agt. Steuben Co., Ind., 1916–8; agt. Allen Co., 1918—. *b.* Summitville, Ind., May 30, 1887; *s.* Andrew J. and Sarah E. (Hand) S.; reared on farm; *m.* Hazel Marie Compton, Dec. 31, 1914. B.S.A., Purdue Univ., 1911; M.S.A., 1913. Sigma Xi; Alpha Gamma Rho.

Smarr, William Logan, co. agrl. agt., Lincolnton, N. C.
Chg. agrl. dept., high-sch., Olla, La., 1913–5; agt. Lincoln Co., N. C., 1915—. *b.* Sharon, S. C., Aug. 16, 1889; *s.* W. T. and Annie (Gilmore) S.; reared on farm; *m.* Hazelle Beam, Dec. 27, 1916; *c.* Sarah Hope. B.S., Clemson Agr. Coll., 1913.

Smith, Albert Edward, co. agrl. agt., Loa, Utah.
b. Manassa, Colo., Oct. 24, 1886; *s.* Albert R. and Irene U. (Haskell) S.; reared on farm; *m.* Minnie J. DePriest, Oct. 3, 1907. B.S., Utah Agr. Coll., 1918.

Smith, Alfred, asst. prof. soil tech., Univ. Calif., Berkeley, Calif.
Instr. chem., Wittenberg Coll., 1908–9; instr. chem. and geol., Pomona Coll., 1912–4; present position, 1914—. *b.* Hazleton, Pa., Jan. 4, 1888; *s.* John and Mary Katherine (Rosenstock) S.; reared in country town; *m.* Bessie Mildred Archibald, Sept. 9, 1914. B.A., Wittenberg Coll., 1907; M.A., 1910. Sigma Phi Epsilon; Alpha Zeta.

Smith, Alfred Glaze, farmer and agrst., U. S. Dept. Agr., Columbia, S. C.
State leader co. agts. for Ill., 1913–4. Organizer Rock Hill Alfalfa Growers' Assoc., S. C. *b.* Danville, Ill., Jan. 23, 1881; *s.* John Eli and Mary Ellen (Firebaugh) S.; reared on farm; *m.* Lucy Prutsnam, Sept. 11, 1907; *c.* Alfred G. Jr. B.S., Univ. Ill., 1906. Alpha Zeta.

Smith, Arthur George, co. agrl. agt., Canton, O.
Chg. dairy dept., Waddington Farm, W. Va., 6 yrs.; co. agt., 1916—. *b.* Blue Mounds, Wis., Dec. 30, 1881; *s.* John W. and Elizabeth (Powell) S.; reared on farm; *m.* Edna Jane Ray, May 15, 1912; *c.* John Ray. B.S.A., Univ. Wis., 1908.

Smith, Carl Albert, co. agrl. agt., Manchester, N. H.
Agron., T. N. Vail Agr. Sch., 1916–7; co. agt., 1917—. *b.* Lyndon, Vt., Nov. 6, 1887; *s.* Fred D. and Cora E. (Gorham) S.; reared on farm; *m.* Inez W. Vaughan, May 27, 1909; *c.* Evelyn Mildred. B.S., Mich. Agr. Coll., 1916.

Smith, Charles Edward, co. agrl. agt., Trinidad, Colo.
Princ. sch., Litchfield, Mich., 1895–8; Rockford, 1898–1901; asst. prof. geol., Colo. Sch. of Mines, 1905–11; co. agt., 1916—. *b.* Jackson Co., Mich., Sept. 5, 1866; *s.* B. F. and Mary E. (Rood) S.; reared on farm; *m.* Harriet Hanson, Sept. 9, 1896; *c.* Helen, Eugene, Caro. Ph.B., Albion Coll., Mich., 1895; A.M., Cornell Univ., 1902; B.S., Colo. Agr. Coll., 1916. Sigma Xi; Alpha Tau Omega.

Smith, Charles Orchard, state club leader, N. Mex. A.&M. Coll., State College, N. Mex.
Asst. econ., Cornell Univ., 1915–6; garden superv., public schs., Englewood, N. J., 1916–7; asst. state club leader, N. J., 1917–8; present position, 1918—. *b.* Oaxaca, Mex., Jul. 10, 1892; *s.* Lucious C. and Sara (Orchard) S.; reared in town. B.S.A., Cornell Univ., 1916.

Smith, Clarence Beaman, chief Off. Ext. Work North and West, States Relation Serv., U. S. Dept. Agr., Washington, D. C.

Princ. schs., Lawton, Mich., 1895–6; with U. S. Dept. Agr., 1896—. *Ed.*, Experiment Station Record, 1897–1907. *Auth.:* (with E. V. Wilcox) Farmer's Cyclopedia of Agriculture, 1904; Farmer's Cyclopedia of Live-Stock, 1907. *b.* Howardsville, Mich., Sept. 21, 1870; *s.* Alonzo and Harriett E. (Maybee) S.; reared on farm; *m.* Lottie Lee Smith, Oct. 2, 1901; *c.* Herbert, Beaman, Helen, Roger, Huron, June. B.S., Mich. Agr. Coll., 1894; M.S., 1895; D.Sc., 1917.

Smith, Clarence E., teach. agr., Greene, N. Y.

Princ. high-sch., Fabius, N. Y., 1909–10; New Berlin, 1910–2; Greene, 1912—. *b.* Steuben, N. Y., Apr. 17, 1887; *s.* Sylvester and Emeline (Olney) S.; reared on farm; *m.* Hilda C. Gilbert, Aug. 24, 1912. A.B., Syracuse Univ., 1909. Delta Chi.

Smith, Edgar Dayton, state dir. voc. agrl. educ., Santa Fe, N. Mex.

Asst. fruit pest insp., B. C., 2 yrs.; teach. agr., Atlantic Co. voc. schs., N. J., 1914–7; Middletown Township voc. sch., 1917–8. *b.* Cold Spring Harbor, N. Y., Sept. 7, 1886; *s.* Edgar H. and Sophie Viele (Knapp) S.; reared on farm; *m.* Bernice Belle Hatch; *c.* Henry Dayton. B.S., Cornell Univ., 1913.

Smith, Edwin, invest. in fruit transportation and storage, U. S. Dept. Agr., Lodi, N. Y.

b. Lodi, N. Y., Nov. 27, 1888; *s.* Clarence F. and Laura (Swarthout) S.; reared on farm. B.S., Mich. Agr. Coll., 1912. Alpha Zeta.

Smith, Edwin Augustus, agrl. ed., Spokane, Wash.

Ed., The Twice-a-Week Spokesman Review, 1895—; managing ed., The Pacific Northwest Farm Trio, 1916—. Founder of The Order of Antæus, 1912. *b.* Balasore, India, Oct. 2, 1853; *s.* Benjamin Burleigh and Dorcas (Folsom) S.; *m.* Delia Ann Leslie, June 11, 1890; *c.* Edith Dorcas. Grad. Bates Coll., 1873.

Smith, Edwin Potter, co. agrl. agt., Norwich, N. Y.

Farm manag., 1912–5; agt. Chenango Co., N. Y., 1915—. *b.* Newark Valley, N. Y., Oct. 10, 1887; *s.* Jabez Collins and Belle (Donley) S.; reared on farm; *m.* Gertrude Irene Howard, June 27, 1918. B.S., Univ. Rochester, 1910; B.S.A., Cornell Univ., 1912. Alpha Gamma Rho.

Smith, Elizabeth Hight, asst. prof. plant path., Univ. Calif., Berkeley, Calif.

Present position, 1905—. *b.* Brookline, Mass., Jan. 12, 1877; *d.* Francis Obed and Emily Margaret (Simpson) S. A.B., Smith Coll., 1900; M.S., Mass. Agr. Coll., 1905.

Smith, Erwin Frink, in chg. Lab. Plant Path., U. S. Dept. Agr., Washington, D. C.

Sch. teach., 2 yrs.; prison guard and keeper, 2 yrs.; clerk and weather recorder, Mich. State Bd. Health, 2 yrs.; with U. S. Dept. Agr., 1886—. Del. Royal Hort. Soc. Conference on Genetics, London, 1906; 1st Inter. Congress Comparative Path., Paris, 1912; 17th Inter. Congress Med., London, 1913. Ex-pres. Soc. Plant Morphology and Physiology, 1902; Sect. G, A.A.A.S., 1906; Soc. Am. Bact., 1906; Bot. Soc. Am., 1910; Am. Phytopath. Soc. 1916. Mem. Nat. Acad. Sci.; Am. Philosophical Soc.; Am. Acad. Arts and Sci.; certificate of honor, Am. Med. Assoc., 1913, for discovery of cancer in plants. *Auth.:* Bacteria in Relation to Plant Diseases, Vol. I, 1905, Vol. II, 1911, Vol. III, 1914. *b.* Gilbert Mills, N. Y., Jan. 21, 1854; *s.* Rancellor King and Louisa (Frink) S.; reared in village and on farm; *m.* Charlotte May Buffett, Apr. 13, 1893; 2d, Ruth Annette Warren, Feb. 21, 1914. B.S., Univ. Mich., 1886; Sc.D., 1889; Sc.D., Univ. Wis., 1914. Phi Delta Theta.

Smith, Fred A., dir. Essex Co. Agrl. Sch., Danvers, Mass.

Market-gardener and florist, 1893–1902; park supt., Hopedale, Mass., 1902–3; supt. Turner Hill Farm, Ipswich, 1903–13; present position, 1913—. Sec. Essex Agrl. Soc., 1911–4. *b.* Lynn, Mass., June 6, 1871; *s.* Henry H. and Emma J. (Keen) S.; reared on farm; *m.* Frances M. Knowland, Jul. 10, 1899; *c.* Helen F., Mildred E., Harold K. B.S., Mass. Agr. Coll., 1893.

Smith, George Alfred, distr. agrl. agt., College Station, Tex.

Co. agt., Jefferson Co., Tex., 6 yrs.; agrl. agt., Chamber of Commerce, Beau-

mont, 1 yr. Member Vt. Legislature, 1904. First pres. Tex. Citrus Growers; dir. Tex. Farmers' Congress, 7 yrs. *Ed.*, county newspapers in N. Y., Vt., N. C., Ky.; agrl. ed. Enterprise, Beaumont, Tex., 4 yrs. *b.* Afton, N. Y., Oct. 13, 1862; *s.* Alfred D. and Fannie A. (Dean) S.; reared in village.

Smith, George E. P., prof. irrig. engin., Univ. Ariz., Tucson, Ariz.

Instr. civil engin., Univ. Vt., 1897–1900; prof. civil engin., Univ. Ariz., 1900–6; prof. irrig. engin. and irrig. engin., Exp. Sta., 1906—. Studied irrigation in Italy, 1910. *b.* Lyndonville, Vt., Dec. 29, 1873; *s.* Franklin Horatio and Hattie L. (Powers) S.; reared in town; *m.* Maude North, Oct. 1, 1904; *c.* Geo. E. P. Jr. B.S. in C.E., Univ. Vt., 1897; C.E., 1899; research study, Univ. Wis., 1910–1. Phi Beta Kappa; Kappa Sigma. Phi Kappa Phi.

Smith, George Robarge, co. agrl. agt., Brighton, Colo.

Ent. for govt. of Argentina, 2½ yrs. Chm. Adams Co. Council of Defense, 1917. *b.* Auburn, N. Y., Mar. 16, 1883; *s.* Joseph and Julia (Robarge) S.; reared in farm and town; *m.* E. Bula Herschler, Apr. 4, 1917. B.S., Colo. Agr. Coll., 1912. Alpha Zeta.

Smith, George Vrooman, ed. New England Farms, W. Willington, Conn.

Farmer. Sec. Conn. Poultry Assoc. *b.* Tioga, Pa., May 10, 1874; *s.* Robt. B. and Ellen A. (Share) S.; reared in small town; *m.* Alice F. Tyler, Jul. 6, 1899. A.B., Union Univ., 1894; LL.B., Yale Univ., 1899. Beta Theta Pi.

Smith, Guy Carlton, field agt. in marketing, Conn. Agr. Coll., Storrs, Conn.

Assoc. prof. econ., N. H. A.&M. Coll., 1911–3; prof., 1914–6; prof. econ., Conn. Agr. Coll., 1916—; agt. U. S. Bur. Markets, 1917—. *b.* Tipton, Mich., Nov. 28, 1881; *s.* J. F. and A. Eliza (Brown) S.; reared on farm; *m.* Florence Spalding, Jul. 31, 1907; *c.* Carlton Spalding, Richard Spalding. Ph.B., Univ. Chicago, 1910; grad. work, Univ. Chicago, 1911. Phi Delta Pi.

Smith, Harry W., asst. co. agt. leader, Univ. Me., Orono, Me.

Princ. Petersham Agrl. High-Sch., Mass., 1910–1; dir. agr., Good Will High-Sch., Hinckley, Me., 1911–2; asst. prof. bact., Univ. Me., 1912; present position, 1916—. *b.* Hudson, Me., Nov. 20, 1886; *s.* C. L. and Dora B. (Davis) S.; reared in town; *m.* Gertrude E. Folley, Jul. 23, 1912; *c.* Irene F. B.S., Univ. Me., 1909. Theta Chi; Alpha Zeta.

Smith, Harvey George, vice ext. dir., Mich. Agr. Coll., E. Lansing, Mich.

Formerly co. agrl. agt., Grand Rapids, Mich. *b.* Oakfield, Wis., Feb. 22, 1886; *s.* Andrew and Rosalie S.; reared on farm. B.S., Univ. Wis., 1911. Alpha Zeta.

Smith, Hoke V., supt. Fulton Farms, Pooler, Ga.

Princ. high-sch., Patterson, Ga., 1915–7; agrl. agt., Chatham Co., Aug.-Dec. 1917; present position, 1918—. *b.* Pierce Co., Ga., Aug. 6, 1896; *s.* J. E. W. and Cordelia (Carter) S.; reared on farm; *m.* Mina Parker, Apr. 23, 1916; *c.* Mary Virginia. Grad. 11th Distr. State Agr. Coll., Douglas, 1914.

Smith, Howard Remus, live-stock comnr., Chicago Live-Stock Exchange, Union Stock Yards, Chicago, Ill.

Asst. prof. an. husb., Univ. Neb., 1900-1; assoc. prof., 1901–2; prof., 1902–12; prof., Univ. Minn., 1912–5; live-stock specialist, Great Northern Ry. and First Nat. Bank, St. Paul, Minn., 1915–7; present position, 1917—. Mem. U. S. Live-Stock Ind. Com. Pres. Nat. Agrl. Soc. *Auth.:* Profitable Stock Feeding, 1905; Cattle for the Northwest, 1917. *Ed.*, live-stock dept., The Farmer, St. Paul. *b.* Addison, Mich., Apr. 16, 1872; *s.* Frederick Hart and Mary Selina (Burr) S.; reared on farm; *m.* Hazel Ruth Neu, Apr. 3, 1912; *c.* Genevieve Louie, Frederick Hart. B.S., Mich. Agr. Coll., 1895.

Smith, Jared Gage, agrl. writer, Napoopoo, Hawaii.

Asst. agrst., Neb. Exp. Sta., 1888–90; assoc. bot., Shaw Sch. Bot., St. Louis, 1892–3; bot. asst., Mo. Bot. Gardens, 1893–5; with U. S. Dept. Agr., 1895–1908; asst. chief div. agrostology, 1895–9; asst. div. bot., 1899–1900; chief sect. seed and plant introduction, 1900–1; dir. Hawaii Exp. Sta., 1901–8; prof. agron., Coll. Hawaii, 1915–6; tobacco planter, 1908–18. Traveled in Europe,

Australia, Mexico. *Ed.*, Pacific Commercial Advertiser, Honolulu. *b.* Scottsburg, N. Y., Sept. 13, 1866; *s.* Prosper Adams and Delia (Spencer) S.; *m.* Grace Catherine Werner, May 15, 1894. B.S., Univ. Neb., 1888; M.A., 1892.

Smith, John Macgregor, prof. agrl. engin., Univ. Sask., Saskatoon, Sask.

Chg. agrl. engin. dept., Farmers' Advocate, Winnipeg, 1916—. *b.* Edinburgh, Scotland, Jul. 29, 1887; *s.* Wm. Nelson and Jane Scott (Macgregor) S.; reared in city; *m.* Ida Baldwin, Sept., 1915. Student Univ. Edinburgh, 2 yrs.; B.S.A., Univ. Man., 1913.

Smith, John Warren, chief Div. Agrl. Meteorology, U. S. Weather Bur., Washington, D. C.

With U. S. Weather Bur., 1888—; dir. N. E. sect., 1890–6; Mont. sect., 1896–7; O. sect., 1898–1909; special lect. meteorology, Ohio State Univ., 1898–1909; distr. forecaster and distr. ed., St. Louis, 1909–10; prof. meteorological sci., Ohio State Univ., 1910–5; present position, 1915—. Sec. State Tuberculosis Comn., O., 1902; pres. O. Acad. Sci., 1914–5. *b.* Grafton, N. H., Sept. 21, 1863; *s.* John R. and Mary E. (Wadleigh) S.; reared on farm; *m.* Florence A. Eaton, 1890; 2d, May P. Goetches, 1912; *c.* Ruth E., Russell W., Audrey P. B.S., N. H. A.&M. Coll., 1888; M.S., 1900; student Harvard Univ., 1891–2.

Smith, Julius, invest. fruits and vegetables, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Asst. agrl. econ., Univ. Wis., 1914–5; invest., Bur. Markets, 1916–8; civilian expert, chg, potato and onion purchasing sect., Subsistence Div., O. Q. M. G., 1918—. Sec. Pa. Rural Progress Assoc., 1912–7. Traveled in Europe, 1910, 1912. *b.* New York City, May 23, 1891; *s.* Barnett and Mary R. (Smith) S.; reared in city; *m.* Edith Ellicott Powers, 1912. A.B., Cornell Univ., 1911; B.S., 1914.

Smith, Leslie John, prof. agrl. engin., Man. Agr. Coll., Winnipeg, Man.

Instr. in chg. farm mech. div., Mich. Agr. Coll., 1906–10; present position, 1918—. *Auth.:* Essentials in Mechanical drawing, 1917. *b.* Petoskey, Mich., May, 25, 1881; *s.* Jasper and Jane (Piekie) S.; reared in town; *m.* Shirley F. Pierce, Aug. 26, 1909; *c.* Jasper A., Dorothy Lois. B.S., Mich. Agr. Coll., 1906. Tau Beta Pi.

Smith, Louie Henrie, prof. plant-breeding, Univ. Ill., Urbana, Ill

Asst. chem., Ill. Exp. Sta., 1899–1903; chief asst. chem., 1903–5; asst. prof. plant-breeding, Univ. Ill., 1905–11; prof., 1911—. Del. to 2d Inter. Congress for Agrl. Educ., Liege, Belgium, 1905. *Asst. ed.*, Journal of the American Society of Agronomy. *b.* Crystal Lake, Ill., Apr. 15, 1872; *s.* Chas. W. and Anna E. (Robinson) S.; reared in town; *m.* Bessie I. Morgan, June 18, 1914. B.S., Univ. Ill., 1897; M.S., 1899; Ph.B., Univ. Halle, Germany, 1907. Sigma Xi; Gamma Alpha.

Smith, Ralph Lord, co. agrl. agt., Portland, Me.

b. Kennebunk Port, Me., Aug. 5, 1891; *s.* Edwin L. and Georgia O. (Clough) S.; reared on farm. Studied Univ. Me., 2 yrs. Sigma Alpha Epsilon.

Smith, Ralph Quincy, co. agrl. agt., Belmont, N. Y.

Teach. farm crops, N. Y. State Sch. Agr., Alfred, winters 1916–7. *b.* New Carlisle, O., Aug. 4, 1892; *s.* J. Quincy and Maggie (Johnson) S.; reared on farm. B.Sc., Ohio State Univ., 1914.

[Smith, R. W., p. 312

Smith, Robert Lloyd, farmer and banker, Waco, Tex.

Princ. Oakland Normal Sch., 1885–1902; pres. Farmers' Improvement Agrl. Sch., near Ladonia, Tex., 1906–18. Founder and pres. Farmers' Improvement Soc. of Tex., 1890—. Mem. Tex. Legislature; deputy U. S. Marshall. *Ed.*, Helping Hand. *b.* Charleston, S. C., Jan. 7, 1861; *s.* Francis A. and Mary H. (Talbot) S.; reared in city; *m.* Isabel Isaacs, Nov. 16, 1890; *c.* Roscoe C., Olive Belle. A.B., Atlanta Univ., 1890.

Smith, Sidney Benjamin, co. agrl. agt., Court House, Decatur, Ill.

Farmer, Springfield, Ill., 1908–18. Sec. Ill. Live-Stock Breeders' Assoc., 2 yrs.; dir. Ill. State Dairymen's Assoc., 3 yrs.; sec.-treas. Ill. Jersey Cattle Club. *b.* near Springfield, Ill., Feb. 7, 1885; *s.* Elbert Sidney and Elsie Jane (Kinsley) S.; *m.* Madeline Babcock, Nov. 22, 1910;

c. Elbert Sidney, Emma Louise. B.S., Univ. Ill., 1907. Alpha Zeta.

Smith, Thomas L., co. agrl. agt., Hagerstown, Md.

Prof. agr. and sci., Franklin Coll., New Athens, O., 1914–5; athletic dir., 1914–5; dean, 1915. Dairyman, Youngstown, O., 3 yrs.; manag. Warrior Mt. Orchard Co., Old Town, Md., 2 yrs. *b.* Youngstown, O., Sept. 13, 1890; *s.* Geo. B. and Elizabeth (Milliken) S.; reared on farm; *m.* Opal B. Moore, Aug. 18, 1914; *c.* Elizabeth Allen, Thos. L. Jr. B.S.A., Ohio State Univ., 1914. Sigma Pi.

Smith, William Herschel, assoc. an. husb. ext., Univ. Ill., Urbana, Ill.

Teach. sci., high-sch., Ft. Dodge, Ia., 1907–8; Beatrice, Neb., 1908–10; present position, 1910—. *b.* Tobias, Neb., Sept. 17, 1881; *s.* Herschel and Jean (Clelland) S.; reared on farm; *m.* Ruby Holman, Dec. 23, 1909; *c.* Jean Holman. B.S., Univ. Neb., 1906; M.S., Univ. Ill., 1912.

Smith, William Wesley, assoc. prof. an. husb., Purdue Univ., LaFayette, Ind.

Asst. an. husb., Ia. State Coll., 1904–5; from instr. to assoc. prof. an. husb., Purdue Univ., 1905—. Traveled British Isles, 1908. *b.* Nevada, Ia., Dec. 13, 1878; *s.* Marion and Rachel Louise (Darner) S.; reared on farm; *m.* Katherine Louise Kane, Aug. 1911; *c.* Richard Wm. B.S.A., Ia. State Coll., 1903; M.S.A., 1906. Alpha Zeta.

Smith, Zora Mayo, state superv. agrl. educ., LaFayette, Ind.,

Supt. schs., Kempton, Ind., 1901–3; head dept. English, high-sch., Rockford, Ill., 1903–5; princ. high-sch., Danville, Ill., 1905–9; Goldsmith, Ind., 1909–12; present position, 1912—. *b.* Golsdmith, Ind., Oct. 14, 1874; *s.* Richard Harmon and Sarah Rebecca (Hall) S.; reared on farm; *m.* Bertha Edna McShane, Sept. 3, 1912; *c.* Maurice Harold, Robt. Hugh, Margaret Esther. A.B., DePauw Univ., 1901; A.M., 1906. Phi Delta Theta.

Smythe, William Ellsworth, journalist, 1402 Merchant's Nat. Bank, San Francisco, Calif.

Exec. chm. Nat. Irrig. Congress, 1893–6, sec., 1891–3. Democratic candidate for Congress, San Diego distr., 1902. Studied coop. movement in Ireland, 1898. Founder Nat. Irrig. Congress. *Auth.:* The Conquest of Arid America, 1900; Constructive Democracy, 1906; History of San Diego, 1906. *Ed.,* Little Lands in America; Western Empire Magazine. *b.* Worcester, Mass., Dec. 24, 1861; *s.* Wm. A. S. and Abbie (Bailey) S.; reared in city; *m.* Harriet Bridge, Dec. 28, 1882; *c.* Bensel, Margaret, Wm. E. Jr.

Snyder, Charles Edwin, National Stockman and Farmer, Pittsburgh, Pa.

With National Stockman and Farmer until 1915; ed., Farmers' Review, Chicago, 1915–8; present position, 1918—. *b.* Huron Co., O., May 30, 1886; *s.* E. P. and Annette (Tillson) S.; reared on farm; *m.* Mary V. Makepeace, Sept. 5, 1912; *c.* Stanley M., Wm. Lewis. B.S.A., Ohio State Univ., 1909. Alpha Gamma Rho.

Snyder, Harry, chem., 1800 Summit Ave., Minneapolis, Minn.

Asst. instr. chem., Cornell Univ., 1889–90; asst. chem., Cornell Univ. Exp. Sta., 1890–1; prof. agrl. chem. and soils, Univ. Minn., 1891–1909; nutr. collaborator and expert, U.S. Dept. Agr., 1895–1907; chem., Russell Miller Milling Co., Minneapolis, 1909—. Fellow A.A.A.S. *Auth.:* The Chemistry of Plant and Animal Life; Dairy Chemistry; Soils and Fertilizers; Human Foods. *b.* Cherry Valley, N. Y., Jan. 26, 1867; *s.* David W. and Mary A. (Harter) S.; reared on farm and in town; *m.* Adelaide C. Craig, Aug. 2, 1890. B.S., Cornell Univ., 1889. Sigma Xi; Phi Delta Theta.

Snyder, William Patton, supt. Univ. Neb. Expl. Substa., N. Platte, Neb.

Asst. an. husb., Univ. Neb., 1903–4; asst. supt. farmers' insts., 1903–6; present position, 1906—. *b.* Butler Co., Pa., Aug. 17, 1875; *s.* Hiram and Eliza P. (Braham) S.; reared in country; *m.* Rachel Isabelle Pollock, Oct. 27, 1904; *c.* Wm. Patton Jr., Bruce Pollock, Marjorie Isabelle. B.A., Univ. Neb., 1901; M.S., Mich. Agr. Coll., 1903. Alpha Zeta.

Sollenberger, Isaac Jacob, prof. rural sociol., Manchester Coll., N. Manchester, Ind.

Asst. sci., Manchester Coll., 1912–4; instr. biol., 1914–5; prof. agrl. biol., 1915–6; prof. rural econ., 1917–8; prof. rural sociol., 1918—. *b.* Fidelity, O.,

Apr. 3, 1891; *s.* David P. and Rebecca A. (Young) S.; reared on farm; *m.* Mary V. Hoke, May 23, 1914; *c.* Talmage Eugene, Guinevere. A.B., Manchester Coll., 1914; grad. student, Ohio State Univ., 1916–7.

Sorrells, William Holman, co agrl. agt., Leesburg, Ga.

Princ. Howard Consolidated High-Sch., Macon, Ga., 1917–8. Treas. Ga. Agrl. Club, 1913–4, pres. 1916. *b.* Monroe, Ga., Apr. 2, 1890; *s.* Humphrey Hendrix and A. H. (Chandler) S.; reared on farm; *m.* Lola Ruth McLeroy, Dec. 6, 1917. B.S.A., Univ. Ga., 1916. Lambda Chi Alpha; Sigma Upsilon; Pi Kappa Delta.

Soule, Andrew MacNairn, pres. Ga. State A. & M. Coll., Athens, Ga.

Asst. in expl. dept., Ont. Agr. Coll., 1891–2; asst. to dir. Mo. Exp. Sta., 1894; asst. prof. agr. and asst. agrst. Exp. Sta., Tex. A.&M. Coll., 1894–9; vice-dir. and agrst., Tenn. Exp. Sta., 1899–1903; dir., 1903–4; chm. agrl. faculty, Univ. Tenn., 1899–1904; dean Coll. Agr. and dir. Exp. Sta., Va. Poly. Inst., 1904–7; present position, 1907—. Fed. food administrator for Ga., 1917—. Sec. Tenn. Farmers' Insts., 1900–4; Va. State Farmers' Inst., 1904–7; dir. Farmers' Insts., Ga., 1907—. Pres. Am. Assoc. Farmers' Inst. Workers, 1913; mem. Inter. Jury Awards, St. Louis Expos., 1904. Fellow Royal Soc. Arts, London, 1915. *b.* Hamilton, Ont., Jul. 8, 1872; *s.* John and Margaret (Shaw) S.; *m.* Olivia Canby Porter, Aug. 29, 1895. B.S.A., Univ. Toronto, 1893; Sc.D., Univ. Ga., 1910; LL.D., 1916.

Spafford, Russell Richard, asst. in agrl. econ., Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.

Instr. physics and chem., Peru State Normal, Neb., 1910–1; asst. prof. farm manag., Univ. Neb., 1915–8; present position, 1918—. *Auth.:* Laboratory Exercises in Principles of Agriculture, 1914. *b.* Flandreau, S. D., Jan. 26, 1887; *s.* A. J. A. and Jane (Carter) S.; reared on farm and in town; *m.* Marie Louise Herrick, May 3, 1916; *c.* Raymond Lewis. B.S., Univ. Neb., 1914; A.M., 1916. Sigma Xi; Alpha Zeta.

Sparks, Edwin Erle, pres. Penn. State Coll., State College, Pa.

Asst. hist., Ohio State Univ., 1884–5; teach. public schs., O., 1885–90; princ. prep. dept. and teach. hist., Penn. State Coll., 1890–5; prof. Am. hist., Univ. Chicago, 1895–1908; pres., The Penn. State Coll., 1908—. Mem. Pa. State Bd. Agr.; dir. Pa. State Chamber of Commerce; Pa. Coll. and Univ. Council; Pa. Public Safety Com.; Pa. rep. Nat. Com. Prisons. *Auth.:* Expansion of the American People, 1899; The Man Who Made the Nation, 1900; Formative Incidents in American Diplomacy, 1902; The United States of America (2 vols.), 1904; Foundations of National Development, 1907; The Lincoln-Douglas Debates of 1858, 1908. *b.* Licking Co., O., Jul. 16, 1860; *s.* Erastus Felton and Jane Erle (Dodd) S.; reared in town and country; *m.* Katharine Cotton, Jan. 1, 1890; *c.* Ethel C. B.A., Ohio State Univ., 1884; M.A., 1890; Ph.D., Univ. Chicago, 1900; LL.D., Lehigh Univ., 1909; LL.D., Allegheny Coll., 1915. Chi Phi; Phi Kappa Phi (pres.).

Speare, Alden True, myco-ent., Bur. Ent., U. S. Dept. Agr., Washington, D. C.

Asst. path., Hawaiian Sugar Planters' Assoc. Exp. Sta., Honolulu, Hawaii, 1911–5; present position, 1915—. *b.* Corinth, Vt., Jul. 25, 1885; *s.* E. J. and Amanda (Blake) S.; reared on farm and in city; *m.* Mattie Prior Kenney, Jul. 11, 1911. B.S., Dartmouth Coll., 1908; M.A., Harvard Univ., 1910.

Spears, Howell Davis, chem. feed control, Ky. Exp. Sta., Lexington, Ky.

Student asst. chem., Univ. Ky., 1906–7; present position, 1907—. *b.* Lexington, Ky., Mar. 5, 1887; *s.* John Esten and Kate Longsworth (Warfield) S.; reared in city. B.S., Univ. Ky., 1907; M.S., 1908. Phi Delta Theta.

Speas, John Henry, co. agrl. agt., Danbury, N. C.

b. East Bend, N. C., Apr. 3, 1892; *s.* S. M. and Julia (Doub) S.; reared on farm. B.S., N. C. A.&M. Coll., 1916.

Spence, Robert Finley, co. agrl. agt., Berea, Ky.

Teach. Berea Coll., 1910–2; asst. dean foundation dept., 1913; agt. Rockcastle Co. and S. Madison, 1918—. *b.* Ionia,

Ky., Aug. 24, 1884; *s.* W. A. J. and Elizabeth (Nicholas) S.; reared on farm. Grad. Berea Coll.

Spencer, Arthur Percival, vice dir. ext. div., Univ. Fla., Gainesville, Fla.

Assoc. prof. an. husb., Va. Poly. Inst., 1907–9; dir. 5th Congressional Agrl. High-Sch., Elk Creek, Va., 1909–Sept. 1910; present position, 1910—. *b.* Brooklin, Ont., May 8, 1877 (naturalized 1915); *s.* H. H. and Agnes (Burns) S.; reared on farm; *m.* Belle Elgin; *c.* Anna Rebecca, Herbert Elgin. B.S., Va. Poly. Inst., 1905; M.S., 1909.

Spencer, Damon Alvin, sheep ext. specialist, U. S. Dept. Agr., Univ. Mo., Columbia, Mo.

Instr. an. husb., Mich. Agr. Coll., 1912–4; Okla. A.&M. Coll., 1914–6; asst. prof., 1916–7; present position, 1918—. *b.* Maple Grove, Mich., Mar. 15, 1887; *s.* Geo. and Martha Jane (Walton) S.; reared on farm; *m.* Iva Mae Coe, Jul. 30, 1913. B.S., Mich. Agr. Coll., 1912.

Spillman, William Jasper, ed. The Farm Journal, Philadelphia, Pa.

Prof. sci., Mo. State Normal, 1887–9; Vincennes Univ., 1889–91; Ore. State Normal, 1891–4; prof. agr., Wash. State Coll., 1894–1901; agrostologist, U. S. Dept. Agr., 1902–5; chief Off. Farm Manag., 1905–18; present position, 1918—. Fellow A. A. A. S. Pres. Am. Farm Manag. Assoc. *Auth.:* Farm Grasses of the U. S.; Farm Science. *b.* Lawrence Co., Mo., Oct. 23, 1863; *s.* Nathan Cosby and Emily P. (Pruitt) S.; reared on farm; *m.* Mattie Ramsey, May 20, 1889; *c.* Ramsay. B.S., Univ. Mo., 1886; M.S., 1889; D.Sc., Temple Univ., Philadelphia, 1907. Phi Beta Kappa; Phi Delta Theta; Alpha Zeta.

Spragg, Frank Azor, research assoc. in plant-breeding, Mich. Agr. Coll., E. Lansing, Mich.

b. Hazleton, Ia., Aug. 21, 1874; *s.* Ezra and Anna (Westcott) S.; reared on farm; *m.* Volo Glenn Mills, Sept. 9, 1909; *c.* Francis, Brundage, Glenn. B.S.A., Mont. State Coll., 1902; M.S., Mich. Agr. Coll., 1906.

Sprague, Almerin Ratio, general supt., Atascadero and Santa Margarita Tracts, San Louis Obispo Co., Santa Ana, Calif.

Princ. high-sch., Racine, Wis., 1881–9, and lect. state teachers' inst.; prof. hist. and econ., Milwaukee high-sch., 1889–91; lect. farmers' insts., Calif., 1895–9; farm adv., Orange Co., Calif. Orchardist, Fairmont, Calif., 6 yrs.; truck-grower, San Benito, Tex., 5 yrs. Pres. Rio Grande Valley Hort. Soc., 1912–4. *b.* Genesee, Wis., Mar. 10, 1851; *s.* Almerin and Silena (Balcom) S.; reared on farm; *m.* Almira Ruggles Peck, Dec. 26, 1877; *c.* Hobart A., Helen L., Marjorie F. A.B., Beloit Coll., 1876; A.M., 1878. Beta Theta Pi.

Sprague, Claude Bates, co. agrl. agt., Port Orchard, Wash.

Orchard foreman, Ore. Exp. Sta., 1909; hort. foreman campus grounds, Wash. State Coll., 1910–2; asst. hort., Wash. Exp. Sta., 1912–7; co. agt., 1917—. *b.* Portland, Ore., Apr. 2, 1883; *s.* John C. and Hettie C. (Hawley) S.; reared on farm; *m.* Ethel Elnora Harpole, Sept. 11, 1912; *c.* Frances Claudia. B.S.A., Ore. Agr. Coll., 1908.

Spring, Samuel N., prof. for., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Prof. for. and head dept., Univ. Me., 1903–5; U. S. For. Serv., 1905–9, as for. asst., asst. for. insp., chief Off. For. Ext.; Conn. state for. and for., Conn. Exp. Sta., 1909–12; present position, 1912—. Mem. special comn. on taxation of woodlands, Conn., 1911; for. com., 5th Conservation Congress, 1913; com. on terminology, Soc. of Am. For., 1916–7. Lect. Yale Univ. Sch. For., 1910–2, 1917. *b.* Sioux City, Ia., Feb. 5, 1875; *s.* Wintrop N. and Ellen E. (Newton) S.; reared in town; *m.* Adah E. Bowman, Nov. 29, 1900; *c.* Ernest Walker, John Bowman, Samuel Gardiner, Chas. Peter. B.A., Yale Univ., 1898; M.F., 1903.

Springer, Frank Stratton, sec. Am. Berkshire Assoc. and Am. Southdown Breeders' Assoc., Springfield, Ill.

Sec. Am. Berkshire Congress, 1916—; mem. exec. com., Nat. Swine Growers' Assoc., 1915. *Ed.,* American Berkshire Record. *b.* Ft. Smith, Ark., Oct. 29, 1870; *s.* John G. and Frances A. (Stratton) S.; reared on farm and in city; *m.* Charlotte Bruce, Jul. 10, 1904; *c.* Katharine Frances, John Bruce.

Spurway, Charles Henry, asst. prof. soils, Mich. Agr. Coll., E. Lansing, Mich.
b. Watford, Ont., Feb. 26, 1883 (naturalized 1904); *s.* Thos. and Sarah (Large) S.; reared on farm; *m.* Minnie Augusta Rie, Dec. 29, 1909; *c.* Thos. Henry. B.S., Mich. Agr. Coll., 1909; M.S.A., 1914. Alpha Zeta.

Squires, John Houston, manag. sales promotion div. and agron., E. I. du Pont de Neuemours & Co., Wilmington, Del.
Prof. agron., N. Mex. A.&M. Coll., 1909–11; present position, 1911—. Mem. exec. com., Nat. Drainage Congress. *Ed.*, Vertical Farming, 1915–7; manag. ed., DuPont Magazine, 1918—. *b.* Union Co., N. C., Jan. 19, 1882; *s.* J. B. and Mary A. (Stevens) S.; reared on farm. B.S., Va. Poly. Inst., 1905; M.S., 1906; Ph.D., Cornell Univ., 1909.

Stabler, Sydney S., co. agrl. agt., Salisbury, N. C.
Agt. Charles Co., Md., 1912–4; instr. in chg. agrl. dept., Frederick Co. high-sch., Md., and dir. farm bur., 1914–5; agt., Rowen Co., N. C., 1916—. Dir. Md. Crop Improvement Assoc., 1913; vice-pres. Md. State Bee-Keepers' Assoc., 1912–3; sec.-treas. N. C. State Bee-Keepers' Assoc., 1917; sec.-treas. agrl. div., Md. State Teach. Assoc., 1915–6. *b.* Brighton, Md., Jul. 20, 1899; *s.* August and Helen (Snowden) S.; reared on farm; *m.* Mary Cobey, Apr. 28, 1914; *c.* Sydney Snowden, Alexander Cobey. B.S., Md. Agr. Coll., 1910.

Stackhouse, James Archer, co. agrl. agt., Cape May C. H., N. J.
Teach. agr., high-sch., Somerville, N. J., 1914–5; dir. voc. sch., Cape May Co., 1915–7; co. agrl. agt., 1917—. *b.* Leavenworth, Kans., Mar. 6, 1887; *s.* Wm. F. and Mary E. (Shimp) S.; reared on farm; *m.* Ellen Holmes Ulrich, Aug. 28, 1915; *c.* Mary Elizabeth, James Archer Jr. B.S.A., Rutgers Coll., 1914.

Stakman, Elvin C., prof. and head sect. plant path., Univ. Minn., University Farm, St. Paul, Minn.
Instr. plant path., Univ. Minn., 1909–13; asst. prof., 1913–6; assoc. prof., 1916–8; prof., 1918—; head sect., Exp. Sta., 1913—. In chg. barberry eradication campaign, U. S. Dept. Agr., 1918; mem. War Emergency Bd., Am. Plant Path., 1918; mem. council, Phytopath. Soc., 1916–7. Joint ed., Phytopathology. *b.* Algoma, Wis., May 17, 1885; *s.* Frederick and Emeline (Eberhardt) S.; reared in village; *m.* Louise Jensen, 1917. B.A., Univ. Minn., 1906; M.A., 1910; Ph.D., 1913. Phi Beta Kappa; Sigma Xi.

Staley, Frank Marcellus, teach. chem. and agr., Tuskegee Inst., Ala.
Chg. agrl. chem. and dairy ind., S. C. State Coll., Orangeburg, 1915–7; present position, 1917—. Sec. S. C. State Collegiate Country Life Club. *b.* Americus, Ga., Dec. 11, 1890; *s.* Alfred Samuel and Ella (Jordan) S. (col.); reared on farm. A.B., Morehouse Coll., Atlanta, Ga., 1912; B.S., Cornell Univ., 1915.

Stallard, John Earl, co. agrl. agt., Waukesha, Wis.
Farmer, Edgerton, Wis., 1 yr.; farm manag., Madison, 2 yrs.; ext. work for Am. Guernsey Cattle Club, Peterboro, N. H., 1 yr.; agrl. agt. Waukesha Co., Wis., 1917—. Advertising manag., Wis. Country Magazine; asst. ed., Guernsey Breeders' Journal, 1 yr. *b.* Fairchild, Wis., Oct. 9, 1889; *s.* J. E. and Libbie (Simons) S.; reared in town and on farm; *m.* Mary A. Wilson, Nov. 25, 1916. B.S.A., Univ. Wis., 1914. Alpha Zeta.

Stallings, Leland Stanford, co. agrl. agt., Breckenridge, Minn.
Agrst., Goshen Coll., Ind., summer 1913; dir. agr., high-sch., Stewart, Minn., 1913–4; Breckenridge, 1914–7; Blu Earth, 1917–8. *b.* Alhambra, Ill., May 30, 1890; *s.* Thos. and Mary Louisa (Pearce) S.; reared on farm; *m.* Elsie Marion Ahlers, Dec. 28, 1915; *c.* Marion Pearce. B.S., Univ. Ill., 1913.

Stange, Charles H., dean and dir. vet. div., Ia. State Coll., Ames, Ia.
Asst. prof. vet. sci., Ia. State Coll., 1907–8; assoc. prof., 1908; dean vet. div., 1909—; dir. vet. invest., 1913—; dir. state biol. lab., 1913—. *b.* Cedar Co., Ia., May 21, 1880; *s.* C. and Sophie (Richmann) S.; reared on farm; *m.* Harriet N. Beyer, Oct. 20, 1909; *c.* Elizabeth Jane. D.V.M., Ia. State Coll., 1907. Phi Kappa Phi.

Stanley, Louise, chm. dept. home econ., Univ. Mo., Columbia, Mo.
Instr. home econ., Univ. Mo., 1907–11;

asst. prof., 1911–3; assoc. prof., 1913—; prof., 1918—; chm. dept., 1910—. Del. to Inter. Conference of Home Econ. Teaching, Ghent, Belgium, 1913. *b.* Nashville, Tenn., June 8, 1883; *d.* G. A. and Eliza Monroe (Winston) S.; reared on farm. B.S., Univ. Nashville, 1903; B.Ed., Univ. Chicago, 1906; M.A., Columbia Univ., 1907; Ph.D., Yale Univ., 1911. Pi Lambda Theta.

Stanton, Thomas Ray, sci. asst. in oat invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Asst. agron., Md. Exp. Sta., 1911; sci. asst. in chg. cereal invests., Arlington Farm, Va., 1912–4; sci. asst. in oat invests., 1915—. *b.* Grantsville, Md., Sept. 23, 1885; *s.* Wm. T. and Anna (Durst) S.; reared on farm; *m.* Pearl Marguerite Gude, Oct. 23, 1913; *c.* Wm. Alexander. B.S.A., Md. Agr. Coll., 1910.

Starcher, George Columbus, prof. hort. and state hort., Ala. Poly. Inst., Auburn, Ala.

Asst. prof. hort., Va. Poly. Inst. and Exp. Sta., 1910–5; assoc. prof., 1915–7; present position, 1917—. Sec. W. Va. State Poultry Assoc. Practical fruit-grower, 7 yrs. *b.* Weston, W. Va., June 17, 1880; *s.* Wm. Stockton and Rebecca Elizabeth (Lawson) S.; reared on farm; *m.* Lillian Ballard Smith, Oct. 16, 1911; *c.* Geo. C. Jr., Lillian Louise. B.S.A., W. Va. Univ., 1910. Sigma Nu.

Stark, Paul Clarence, vice-pres. and general manag., Stark Bros. Nurseries & Orchards Co., Louisiana, Mo.

Auth.: Stark Orchard Book, 1912; Stark Orchard and Spray Book, 1914; Secrets of Ornamental Planting, 1916. *Assoc. ed.,* American Fruit Grower. Invest. nursery conditions of France. *b.* Louisiana, Mo., Jul. 20, 1891; *s.* Clarence McDowell and Lilly (Crow) S.; reared in town and on farm; *m.* Theodosia Bernett, Sept. 6, 1916; *c.* Paul C. Jr. B.S. in Agr., Cornell Univ., 1912. Alpha Tau Omega.

Starr, Silas Henry, adj. prof. farm manag., Univ. Ga., Athens, Ga.

Teach. Bolton Coll., 1910–3; asst. princ. agrl. high-sch., Brunswick, Tenn., 2 yrs.; princ., 2 yrs. *b.* Starrsville, Ga., Apr. 3, 1888; *s.* J. A. and Mattie (Elliot) S.; reared on farm. B.S.A., Univ. Ga., 1910.

Starratt, Frank Aubrey, prof. theol., Colgate Univ., Hamilton, N. Y.

Farmer and preacher, Tex., 1898–1901. Mem. Com. on Church and Country Life, Fed. Council of Churches of Christ of Am. Special attention to rural church. *b.* Nova Scotia, Feb. 7, 1865; *s.* Geo. and Emily (Dugwell) S.; reared on farm; *m.* Alice A. Rowley, 1894; 2d, Florence A. Seaborne; *c.* Edith E. B.A., Acadia Univ., 1892; D.D., 1912.

Starring, George Arthur, prof. agrl. journalism and ed. publications, S. D. State Coll., Brookings, S. D.

Instr. commerce, high-sch., Sioux City, Ia., 1909–10; prof. commerce, S. D. State Coll., 1910–2; ed. publications and prof. agrl. journalism, 1912—. Publicist for State Bd. Agr., 1911–6. *b.* Princeton, Ill., Jul. 13, 1882; *s.* Geo. H. and Lida Fox (Tedman) S.; reared in town; *m.* Grace June Martin, Jul. 1910; *c.* Geo. Martin, Mary Jean. A.B., Huron Coll., 1907; grad. student Univ. Chcago, 1 yr.

Stedman, John Moore, farmers' inst. specialist, States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Instr. ent. and invert. zool. and asst. ent. Exp. Sta., Cornell Univ., 1888–90; biol., U. S. Dept. Agr., 1890–1; prof. biol., Trinity Coll., Durham, N. C., 1891–3; prof. biol. and biol. Exp. Sta., Ala. Poly. Inst., 1893–5; prof. ent. and ent. Exp. Sta., Univ. Mo., 1895–1909; with U. S. Dept. Agr., 1909—. Traveled in trop. America, Europe, Asia, Africa. *b.* Brockport, N. Y., Nov. 2, 1864; *s.* Geo. L. and Mary (Moore) S.; reared in village; *m.* Edith VanAiken, Jul. 1, 1888; *c.* Barbara Mary, Lulu Rachel. B.S., Cornell Univ., 1888. Sigma Xi.

Steele, Lawrence John, co. agrl. agt., Albion, N. Y.

Teach. agr., Holley high-sch., N. Y., 1915–7; agt. Orleans Co., 1917—. *b.* Bergen, N. Y., June 22, 1891; *s.* John N. and Myrtie P. (Bowers) S.; reared on farm. B.S., Cornell Univ., 1915. Alpha Gamma Rho.

Steenbock, Harry, assoc. prof. agrl. chem., Univ. Wis., Madison, Wis.

Asst. agrl. chem., Univ. Wis., 1908–10; instr., 1910–2, 1913–6; asst. prof., 1916–7; assoc. prof., 1917—. Traveled Europe and Mexico. *b.* Charleston, Wis., Aug.

16, 1886; *s.* Henry and Christine (Oesau) S.; reared on farm. B.S., Univ. Wis., 1908; M.S., 1910; Ph.D., 1916; studied Berlin Univ. and Yale Univ. Sigma Xi; Phi Sigma Kappa; Alpha Zeta; Gamma Alpha; Alpha Chi Sigma; Phi Lambda Upsilon.

Stelzenmuller, George Vaughn, co. agrl. agt., Bay Minette, Ala.

Field agt. hort., Ala. Exp. Sta., 1913–6; agt. Baldwin Co., 1916—. *b.* Point Clear, Ala., Oct. 23, 1887; *s.* Wm. and Mary Alice (Street) S.; reared on farm; *m.* Alma Bertha Herdler, June 16, 1915; *c.* Geo. V. Jr. B.S., Ala. Poly. Inst., 1913. Phi Kappa Phi.

Stemple, Forrest Wilbur, prof. agron. and agron. Exp. Sta., W. Va. Univ., Morgantown, W. Va.

Teach. W. Va. Normal, W. Liberty, 1908–9; asst. princ. high-sch., Morgantown, 1909–11; head sci. dept., W. Va. Univ. Preparatory Branch, Montgomery, 1911–3; instr. agron., Ohio State Univ., 1914–6; present position, 1916—. *Joint auth.:* Laboratory Manual Cereal and Forage Crops, 1915. *b.* Aurora, W. Va., Dec. 10, 1881; *s.* D. C. and Ida (Trotter) S.; reared on farm; *m.* Grace Townsend, 1909; *c.* Alice Elizabeth, Margaret Ida. A.B., W. Va. Univ., 1908; M.S., Univ. Wis., 1914. Phi Kappa Psi.

Stene, Andrew Edward, state ent. and dir. ext. serv., R. I. State Coll., Kingston, R. I.

Princ. schs., Ashby, Minn., 1898–1901; asst. hort., R. I. State Coll., 1903–4; supt. ext. dept., 1904–14; dir. ext. serv., 1914—; nursery insp., R. I. State Bd. Agr., 1903–10 ; supt. gypsy and brown-tail moth work, 1906–10; state ent., 1910—. Chm. Eastern States Ext. Workers' Assoc., 1916. Traveled in Europe, 1902. *b.* Ashby, Minn., Aug. 14, 1872; *s.* John and Mary (Efskind) S.; reared on farm; *m.* Edith Lincoln Kennison, Aug. 15, 1911; *c.* Ruth Mary, John Kennison. B.S.A., Univ. Minn., 1897; M.S.A., Cornell Univ., 1902.

Stephens, David Edmund, supt. Cereal Field Sta., Moro, Ore.

Instr., Utah Agr. Coll., 1906–7; asst. prof., 1908–9; exec. asst., U. S. Dept. Agr., 1909–12; supt. field sta., 1912—. *b.* Malad, Ida., May 15, 1879; *s.* Thos. and Emma (Morgan) S.; reared on farm; *m.* Kate Izatt, 1906; *c.* Edmund, Thos., Emmajean, Janet. B.S., Utah Agr. Coll., 1904.

Stephens, George Ware, prof. econ. and sociol., Univ. Me., Orono, Me.

Instr. econ., Ia. Wesleyan Coll., 1904–6; prof., 1907–10; asst. political econ., Univ. Wis., 1906–7, 1910–1; acting prof. econ. and sociol., Univ. Me., 1911–2; prof., 1912—. *b.* Wapello, Ia., Sept. 18, 1878; *s.* Nathaniel Ewing and Harriet (Dotson) S.; reared in town; *m.* Florence Currier, June 28, 1905; *c.* Helen Frances, Florence Marjorie. Ph.B., Ia. Wesleyan Coll., 1904; A.M., Univ. Wis., 1907; Ph.D., 1911. Beta Theta Pi; Phi Kappa Phi.

Stephens, Paul, ed. American Farming, 537 S. Dearborn St., Chicago, Ill.

City ed. Republican-Era, Murphysboro, Ill., 1908–9; city ed. Durant News, Okla., 1909; telegraph ed., Dallas Morning News, Dallas, Tex., 1909–10; ed. Daily Democrat, Durant, Okla., 1910; special writer for papers, 2 yrs.; city ed. Daily Gazette, Champaign, Ill., 1913–6; ed. American Farming, 1916—. *b.* Murphysboro, Ill., Dec. 31, 1879; *s.* Richard J. and Adeline Mary (Gall) S.; reared in town; *m.* Elizabeth L. Arm, Feb. 19, 1900; *c.* Pauline E., Edith M., John E.

Stephens, Philip H., co. agrl. agt., Upland, Neb.

b. Westfield, N. Y., Feb. 17, 1896; *s.* Geo. W. and Carrie E. (Holcomb) S.; reared on farm.

Stevens, Frank Lincoln, prof. plant path., Univ. Ill., Urbana, Ill.

Instr. path., N. C. A.&M. Coll., 1901–2; prof. bot. and veg. path. and path. Exp. Sta., 1902–12; dean A. & M. Coll. of Univ. Porto Rico, 1912–4; present position, 1914—. Fellow A. A. A. S.; fellow N. C. Acad. Sci. Pres. Am. Phytopath. Soc., 1910; vice-pres. Am. Nature-Study Soc., 1908. *Joint auth.:* Agriculture for Beginners; The Hill Readers, 1906; Practical Arithmetic, 1909; Diseases of Economic Plants, 1910. *Auth.:* The Fungi That Cause Plant Disease. *Assoc. ed.*, Phytopathology; Journal of Bacteriology. *b.* Syracuse, N. Y., Apr. 1, 1871; *s.* H. B. and Helen C. (Lincoln) S.; reared on farm; *m.* Adeline T. Chapman, June, 1897. B.L., Hobart Coll., 1891;

B.S., Rutgers Coll., 1893; M.S., 1897; Ph.D., Univ. Chicago, 1900. Sigma Xi.

Stevens, Harold Edwin, plant path., Fla. Exp. Sta., Gainesville, Fla.
Field asst. bot., Ky. Exp. Sta., 1906; agrl. insp., Bur. Agr., Philippines, 1907–8; asst. plant path., Ark. Exp. Sta., 1910–1; present position, 1912—. *b.* Pruitt, Ky., Mar. 29, 1880; *s.* Chas. T. and Julia E. (Mendenhall) S.; reared on farm; *m.* Ella Maie Crawford, Sept. 12, 1911. B.S.A., Univ. Ky., 1906; M.S., Univ. Ill., 1910.

Stevens, Hugh Albert, co. agrl. agt., Jeffersonville, Ind.
b. Orwell, O. Apr. 22, 1887; *s.* Justin Francis and Ruth Rebecca (Gould) S.; reared on farm; *m.* Eva L. Ritter, June 24, 1908; *c.* Edna Lucille, Janice Leone, Harold Woodrow. B.S.A., Ohio State Univ., 1915.

Stevens, Neil Everett, path., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.
Instr. plant path., Kans. State Agr. Coll., 1911–2. *b.* Portland, Me., Apr. 6, 1887; *s.* Thos. J. and Hattie (Mantle) S.; reared on farm and in city; *m.* Maude Bradford, Aug. 31, 1914; *c.* Russell B., Carl M. B.A., Bates Coll., 1908; Ph.D., Yale Univ., 1911. Sigma Xi.

Stevens, Ralph Tallant, asst. prof. lands. gard., Univ. Calif., Berkeley, Calif.
With O. C. Simonds & Co., Chicago, 1905–7; Calif. Nursery Co., Niles, 1907–8; S. Calif. Acclimatization Assoc., Santa Barbara, 1908–10; MacRorie-McLaren Co., San Francisco, 1910–3; present position, 1913—; (on leave) practicing lands. gard., Santa Barbara, 1917—. *b.* Santa Barbara, Calif., Dec. 15, 1882; *s.* Kinton R. and Lucy C. (Tallant) S.; reared in suburbs. B.S., Mich. Agr. Coll., 1905.

Stevenson, George H., pres. Fed. Land Bank, Baltimore, Md.
Farm loan land appraiser for private Bank, Omaha, Neb., 1906–7; expert in agrl. ext., U. S. Dept. Agr., 1915–6. Sec. O. State Conservation Comn., 1911. General manag. of Nat. Corn Expos., 1910–3. Farm operator. *b.* Lincoln, Neb., Oct. 24, 1885; *s.* Geo. H. and Carrie (Blanchard) S.; reared on farm; *m.* Rachel Burbank, 1912; *c.* Geo. H. Jr., Eleanor.

Stevenson, James Vail, farmer, Streator, Ill.
Asst. agrl. ext., Univ. Ill., 1913. Pres. Ill. Corn Growers' and Stockmans' Convention, 1918. *b.* LaSalle Co., Ill., Nov. 12, 1889; *s.* Ernest E. and Manie (Vail) S.; reared on farm; *m.* Lucile Needham, Oct. 12, 1916; *c.* Margaret Ruth. A.B., Univ. Ill., 1912; B.S., 1913. Chi Beta.

Stevenson, Lionel, supt. expl. sta., Saanichton, Vancouver Isl., B. C.
Prof. agr., N. S. Agr. Coll., 1912–3. Pres. Seed Growers' Assoc. of B. C., 1918. *b.* Ancaster, Ont., Apr. 3, 1879; *s.* R. S. and Alice A. (Harrington) S.; reared on farm; *m.* Mary P. Blair, Sept. 17, 1914; *c.* Mary Adele, Evelyn Blair. B.S.A., Ont. Agr. Coll. and Toronto Univ., 1912; M.S., Univ. Ill., 1914.

Stevenson, William Henry, prof. farm crops and soils, chief in agron. in chg. State Soil Survey and vice-dir. Exp. Sta., Ia. State Coll., Ames, Ia.
Prof. soils, Ia. State Coll., 1902–10; prof. agron., 1910–4; prof. farm crops and soils, 1917; in chg. Soil Survey, 1914—; vice-dir. Exp. Sta., 1912—. Mem. Ia. State Drainage, Waterways and Conservation Comn., 1908–10; sec. Ia. State Drainage Assoc., 1904–14. *Auth.:* Soil Physics Laboratory Guide, 1905. *b.* Freeport, Ill., Sept. 4, 1872; *s.* Henry Staley and Louise (Rosentiel) S.; reared on farm; *m.* Rosaltha Coffin Scott, June 29, 1904. A.B., Univ. Ill., 1893; B.S.A., Ia. State Coll., 1905. Pi Kappa Alpha; Alpha Zeta; Gamma Sigma Delta; Phi Kappa Phi; Phi Lambda Upsilon.

Stewart, Charles Leslie, prof. econ. and sociol., Univ. Ark., Fayetteville, Ark.
Instr. econ., Univ. Ill., 1915–8; present position, 1918—. Chm. com. on rural credits, Am. Assoc. for Agrl. Legislation. Traveled in Europe, 1914. *Auth.:* An Analysis of Rural Banking Conditions in Illinois, 1914; Land Tenure in the United States with Special Reference to Illinois, 1916. *b.* Moweaqua, Ill., Sept. 3, 1890; *s.* James Gray and Tryphena Margaret (Brooks) S.; reared on farm; *m.* Ruth Want, Aug. 12, 1916; *c.* Mary Margaret. A.B., Ill. Wesleyan Univ., 1911; A.M., Univ. Ill., 1912; Ph.D., 1915. Phi Eta; Beta Gamma Delta; Pi Kappa Delta; Kappa Delta Pi.

Stewart, Fred, co. agrl. agt., Athens, Ala.
Instr. field crops, Tex. A.&M. Coll., 1913–4; agt. Limestone Co., Ala., 1914—. *b.* Centerville, Ala., May 1, 1889; *s.* W. T. and Rachel R. S.; reared on farm; *m.* Inez Mae McCraw, Jul. 29. 1914; *c.* Eugene C., Clifford, Harrold. B.S., Ala. Poly. Inst., 1911. Delta Pi Sigma.

Stewart, Fred Carlton, bot., N. Y. Agr. Exp. Sta., Geneva, N. Y.
Asst. bot., Ia. State Coll., 1891–4; present position, 1894—. Fellow A. A. A. S. *b.* Clymer, N. Y., Feb. 13, 1868; *s.* Almeron L. and Charlotte E. (Hubbard) S.; reared on farm; *m.* Alene Chestek, Nov. 20, 1895; *c.* Harland H., Ralph W., Hermine, Charlotte A., Mayalene. B.Sc., Ia. State Coll., 1892; M.Sc., 1894.

Stewart, Harold Wilson, asst. prof. soils, Univ. Wis., Madison, Wis.
Asst. soil survey, Ill. Exp. Sta., 1909–12; assoc. soil physics, Univ. Ill., 1912–5; present position, 1915—. *b.* Hebron, Ill., Jul. 3, 1886; *s.* Richard Henry and Mary Ada (Wilson) S.; reared on farm; *m.* Margery Ada Nichols, Dec. 28, 1910; *c.* Richard Henry, Wilson Nichols. B.S., Univ. Ill., 1909. Sigma Xi; Alpha Zeta; Phi Sigma Kappa.

Stewart, James Henry, comnr. agr., Charleston, W. Va.
Dir. W. Va. Exp. Sta., 1897–1912. *b.* Raymond City, W. Va., June 20, 1859; *s.* James and Martha Jane (Staton) S.; reared on farm; *m.* Minnie L. Vance, Sept. 7, 1882; *c.* James Vance. B.S., W. Va. Univ., 1882; LL.B., 1885. Phi Sigma Kappa.

Stewart, John Pogue, prof. expl. pom., Penn. State Coll., State College, Pa.
Teach. nature-study and bot., Ill. State Normal, 1903–6; present position, 1907—. Fellow A.A.A.S. *b.* Biggsville, Ill., June 1, 1876; *s.* James Gibson and Maria Louisa (Pogue) S.; reared on farm; *m.* Isabelle Stuart Montgomery, Sept. 10, 1913; *c.* Mary Louise. A.B., Univ. Ill., 1902; M.S.A., Cornell Univ., 1903; Ph.D., 1911. Sigma Xi; Gamma Alpha; Alpha Zeta.

Stewart, John Truesdale, prof. and chief div. agrl. engin., Univ. Minn., University Farm, St. Paul, Minn.
Field asst., U. S. Geol. Survey, 1898–1903; drainage engin., U. S. Dept. Agr., 1904–8; present position, 1908—. Major Engineers, U. S. Army, 1917—. *b.* Loda, Ill., Jan. 13, 1868; *s.* Wm. R. and Nancy (Barr) S.; reared on farm; *m.* Ida B. Wilson, Jan. 1, 1900. B.S., Univ. Ill., 1893; C.E., 1909. Sigma Xi; Tau Beta Pi; Alpha Zeta.

Stewart, Milton Melvin, invest., Bur. Markets, U. S. Dept. Agr., Washington, D. C.
First Lieut., Quartermasters' Corps, U. S. Army, 1918—. *b.* Baltimore, Md., Aug. 6, 1885; *s.* David B. and Susan (Melvin) S.; reared in city; *m.* Anna Pearl Griffin, Jan. 2, 1915; *c.* Dorothy Melvin. Student Baltimore Poly. Inst., 3 yrs.

Stewart, Paul H., co. agrl. agt., Kimball, Neb.
Instr. agron., Univ. Neb., 1917. *b.* Kennard, Neb., May 7, 1893; *s.* Sam W. and Lucy (Downing) S.; reared on farm; *m.* Mar. 12, 1918. B.S., Univ. Neb., 1916. Alpha Zeta.

Stewart, Robert, prof. soil fert., Univ. Ill., Urbana, Ill.
Asst. chem., Utah Exp. Sta., 1902–5; asst. prof. chem., Utah Agr. Coll., 1905–7; prof., 1908–15; asst. dir. Exp. Sta., 1909–15; present position, 1915—. Sergeant Utah Light Artillery, Philippine Isls., 1898–9. *b.* American Fork, Utah, Aug. 16, 1877; *s.* James and Sarah Ann (Woodhead) S.; reared on farm; *m.* Jane E. Gordon, Dec. 24, 1900; *c.* Lorena, Gordon, Robt. V., Marjorie. B.S., Utah Agr. Coll., 1902; Ph.D., Univ. Ill., 1909. Sigma Xi; Alpha Delta Rho.

Stewart, Rolland Maclaren, prof. rural educ., State Coll. Agr., Cornell Univ., Ithaca, N. Y.
Prof. educ. and psychology, Graceland Coll., Lamoni, Ia., 1904–8; pres., 1905–8; asst. educ., State Univ. Ia., 1908–11; instr., 1911; asst. prof., 1911–8; present position, 1918—. *Auth.:* Cooperative Methods in the Development of School Support in the United States, 1914. *b.* Winslow, Ill., Nov. 27, 1878; *s.* James Alexander and Amanda (Rayhorn) S.; reared on farm; *m.* Hattie Roxanna Phillips, Dec. 22, 1904; *c.* Harold Philips, Ralph Wentworth. B.A., State Univ. Ia., 1904; Ph.D., 1912. Phi Beta Kappa; Phi Delta Kappa.

Stewart, Rupert Lyonel, prof. agron., N. Mex. A.&M. Coll., State College, N. Mex.
Asst. agron., N. Mex. A.&M. Coll., 1911–3; asst. an. husb., Mar.-June 1915; asst. prof. agron., 1915–6; prof., 1916—. *b.* New Florence, Mo., Jul. 15, 1890; *s.* S. P. and Eva (Davis) S.; reared on farm; *m.* Vernice Norma Bowers, June 5, 1917. B.S.A., N. Mex. A.&M. Coll., 1911; M.S.A., Cornell Univ., 1914.

Stewart, Vern B., path., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.
Asst. prof. plant path., Cornell Univ., 1913–8; present position, 1918—. *Assoc. ed.,* Phytopathology. *b.* Avilla, Ind., Jan. 26, 1888; *s.* Wm. H. and Arabella (Bonham) S.; reared in town; *m.* Mary R. Howell, Aug. 27, 1914. A.B., Wabash Coll., 1909; Ph.D., Cornell Univ., 1913. Sigma Xi.

Stewart, William James, ed. Horticulture, Winchester, Mass.
Sec. Soc. Am. Florists, 1887–1906, pres., 1907; sec. Am. Rose Soc., 3 yrs. Florist, Boston, 1871–92; ed. Horticulture, 1904—. *b.* Cambridge, Mass., Mar. 17, 1849; *s.* Andrew and Ellen (Cooke) S.; reared in city; *m.* Martha Piper Snow, Apr. 23, 1874; *c.* Sarah Jane, Louise Greenwood, Ellen Cooke.

Stiles, J. C., co. agrl. agt., Ashland, Va.
Mem. Va. Crop Pest Comn., 1904–9; prof. agr. and sci., Chester Agrl. High-Sch., Chester, Va., 1909–13. *b.* Elliston, Va., Sept. 13, 1883; *s.* E. W. and Rosa B. (Wamach) S.; reared on farm; *m.* Virginia Clay Robertson, 1913; *c.* 2 daughters. B.S., Va. Poly. Inst.

Stiles, Robert M., co. agrl. agt., Hartland, Me.
b. Jackson, Me., Jan. 28, 1891; *s.* Mark S. and Elizabeth J. (Hanson) S.; reared on farm. B.S., Univ. Me., 1914. Phi Eta Kappa.

Stinson, John Turner, sec. Nat. Swine Growers' Assoc., Cedar Rapids, Ia.
Prof. hort. and hort. Exp. Sta., Univ. Ark., 1891–1900; dir. Mo. Fruit Exp. Sta., 1900–3; supt. pom., St. Louis Expos., 1903–4; agrl. agt., Mo. Pacific Ry., 1904–7; sec. Mo. State Fair, 1908–14; sec. St. Louis Agrl. Fair, 1915–6; ext. serv., Univ. Mo., 1917; present position, 1918—. *b.* Pierceton, Ind., Sept. 5, 1865; *s.* A. D. and Elizabeth (Doke) S.; reared on farm; *m.* Robbie Trott, Aug. 15, 1894; *c.* Rebecca, Benjamin A., Ruth, John T. Jr. B.Sc., Ia. State Coll., 1890. Kappa Alpha.

Stockbridge, Horace Edward, ed. Southern Ruralist, Atlanta, Ga.
Assoc. prof. chem., Mass. Agr. Coll., 1884–5; prof. chem. and geol., Imperial Coll. Agr. and Engin., Japan, 1885–9; chief govt. chem., Japan, 1887–9; dir. Ind. Exp. Sta., 1889–90; dir. N. D. Exp. Sta. and pres. N. D. Agr. Coll., 1890–4; dean Coll. Agr. and dir. farmers' insts., Univ. Fla., 1897–1902; present position, 1906—. Sec. Fla. State Agr. Soc.; pres. Farmers' Nat. Congress, 1916–7. Trustee, Univ. of the South, Sewanee, Tenn., 1918. Owned and operated plantation, Sumter Co., Ga., since 1895. *Auth.:* Rocks and Soils, 1887, 92, 95, 1902; Land Teaching, 1910. *b.* Hadley, Mass., May 19, 1857; *s.* Levi and Johanna (Smith) S.; reared on farm; *m.* Belle Lamar, Mar. 30, 1885; *c.* Levi Basil, Abigail M., Derry L., John S. B.S., Mass. Agr. Coll., 1898; Ph.D., Goettingen Univ., Germany, 1884. Kappa Sigma.

Stocking, William Alonzo Jr., prof. dairy ind., State Coll. Agr., Cornell Univ., Ithaca, N. Y.
Asst. prof. dairy ind., Cornell Univ., 1906–9; prof., 1909—; acting-dir. Coll. Agr., 1913–4. Pres. Am. Dairy Sci. Assoc. *Auth.:* Manual of Milk Products, 1917. *b.* Simsbury, Conn., May 13, 1872; *s.* W. A. and Serinda (Delanoy) S.; reared on farm; *m.* Harriet M. Bliss, June 27, 1900; *c.* John Bliss, Robt. Bliss, Wm. Bliss, Elizabeth Delanoy. B.Agr., Conn. Agr. Coll., 1895; B.S.A., Cornell Univ., 1898; M.S.A., 1906. Sigma Xi.

Stoddard, Edwin Freeman, prof. veg. gard., Md. Agr. Coll., College Park, Md.
Instr. hort., N. C. A.&M. Coll., 1913–5; assoc. prof. veg. gard., Md. Agr. Coll., 1915–6; prof., 1916—. Sec.-treas. Md. Veg. Growers' Assoc. Ed. veg. column, Florists' Exchange. With Barnes Bros., Yalesville, Conn., 1911; W. Atlee Burpee Co., 1912. *b.* Carbondale, Pa., May 14, 1888; *s.* Herbert Asa and Abigail Freeman (Rounds) S.; reared on farm and in town; *m.* Elizabeth Archibold Summy, Aug. 8, 1913; *c.* David Lee, Sara Louise. B.S., Penn. State Coll., 1913; grad.

student, Cornell Univ. Phi Kappa Phi; Sigma Phi Sigma.

Stoddart, Charles William, prof. agrl. chem., Penn. State Coll., State College, Pa.

Instr. and asst. prof. soils, Univ. Wis., 1904–10; present position, 1910—. *Auth.:* Chemistry of Agriculture, 1915. *b.* Boscobel, Wis., Oct. 14, 1877; *s.* Wm. and Emma (Sylvester) S.; reared in city; *m.* Clara Cook, June 12, 1902; *c.* Chas. Wm. Jr., Harold Coburn, Robt. Cook. A.B., Columbia Univ., 1900; A.M., 1901; Ph.D., Univ. Wis., 1909. Phi Beta Kappa; Sigma Xi; Phi Kappa Phi; Beta Theta Pi.

Stokes, W. Eugene, co. agrl. agt., Edgefield, S. C.

Asst. chem., Tex. Exp. Sta., 1911–2; asst. prof. agron., N. H. A.&M. Coll., 1913–4; farmer, Bamberg, S. C., 1914–7; co. agt., 1917—; ext. agron., Clemson Agr. Coll., 1918. *b.* Bamberg, S. C., Aug. 21, 1889; *s.* J. W. and Belle S.; reared on farm; *m.* Belle Mae Cooner, Jan. 1, 1914; *c.* Margaret Isabelle. B.S., Clemson Agr. Coll., 1911; M.S., Univ. Wis., 1914.

Stokoe, William Clarence, co. agrl. agt., Lancaster, N. H.

Instr. agr., high-sch., Gowanda, N. Y., 1914–7; co. agt., 1917—. *b.* Scottsville, N. Y., Jan. 4, 1890; *s.* Wm. L. and Margaret (Malloch) S.; reared on farm; *m.* Marie Cecilia Stafford, Oct. 12, 1916. B.S., Cornell Univ., 1913.

Stoltz, Robert Bear, asst. prof. dairying, Ohio State Univ., Columbus, O.

Instr. dairying, Ohio State Univ., 1912–4; asst. prof., 1914—. *b.* Bradford, O., Mar. 6, 1890; *s.* James F. and Ida E. (Bear) S.; reared on farm and in town; *m.* Marie Cassell, June 12, 1912; *c.* Philip C., Bonnie Marie. B.S.A., Ohio State Univ., 1912.

Stone, Alden Lescombe, asst. prof. agron., Univ. Wis., state seed insp. and deputy weed comnr., State Dept. Agr., Madison, Wis.

Asst. agron., Univ. Wis., 1903–6; instr., 1906–10; asst. prof., 1910—. Pres. Wis. Agr. Exp. Assoc., 4 yrs.; pres. Nat. Assoc. Seed Analysts, 1917. Served as private in Spanish-American War. *b.* Burnett, Wis., Dec. 9, 1872; *s.* Wm. Wallace and Calista Elizabeth (Tripp) S.; reared in city and on farm; *m.* Alice Lena Mayhew, May 1, 1900; *c.* Dorothy, Bernice, Wm., Alice, Philip, Wilson, Alden, Donald, Gwyn.

Stone, John Lemuel, prof. farm practice, State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Farmer, Waverly, Pa., 1874–97; asst. agr., Cornell Univ., 1897–1903; asst. prof., 1904–6; prof. farm practice, 1907—. *b.* Waverly, Pa., Jul. 6, 1852; *s.* Lora W. and Julia A. (Gorman) S.; reared on farm; *m.* Jennie D. Parker, Aug. 30, 1876; *c.* Delia M., Helen L., Mary D., Julia A. B.Agr., Cornell Univ., 1874.

Stookey, Edward Benton, agron., W. Wash. Exp. Sta., Puyallup, Wash.

Teach. agr., chem. and bot., high-sch., Garfield, Wash., 1912–3; asst. prof., W. Wash. Exp. Sta., 1913–4; agron., 1914—. *b.* Creston, Wash., Sept. 2, 1889; *s.* Alfred E. and Mary (Wooley) S.; reared on farm; *m.* Lucy Belle Kincaid, Sept. 2, 1913; *c.* Edward Allen, Mary Christine, Robt. Benton. B.S., Wash. State Coll., 1912.

Storm, Ashley Van, prof. and chief div. agrl. educ., and dir. short-courses, Univ. Minn., University Farm, St. Paul, Minn.

Supt. city schs., Winchester, Ill., 1890–4, Storm Lake, Ia., 1894–8, Cherokee, Ia., 1898–1906, Iowa City, Ia., 1906–7; ext. prof. public sch. agr., Ia. State Coll., 1907–11; prof. and head dept. agrl. educ., dir. summer session, 1911–2; prof. and chief div. agrl. educ., Univ. Minn., 1912–; dir. summer session, 1913—; conductor state teach. training sch., 1913—. Pres. Am. Assoc. for Adv. Agrl. Teaching, 1915–6; pres. N. W. Ia. Teach. Assoc., 1896; supt. educ. exhibits, Ia. State Fair, 1908–12; chm. Nat. Educ. Assoc. Com. on Agr., 1913—. Admitted to Bar, 1890. *b.* Walnut, Ill., Nov. 18, 1861; *s.* John Miller and Josephine (Mitchell) S.; reared on farm; *m.* Elizabeth Ann Hayler, Mar. 24, 1889; *c.* Shirley Snow, Arthur V., Paul H. Ph.B., Ill. Wesleyan Univ.; M.A., Univ. Ia., 1912. Phi Delta Kappa; Gamma Sigma Delta (nat. grand pres.); Alpha Gamma Rho.

Story, George F. Edmunds, prof. an. ind., Univ. Vt., Burlington, Vt.

Ext. instr. an. husb., Ohio State Univ., 1910–1; ext. instr. an. husb. and dairying,

Mass. Agr. Coll., 1911–5; present position, 1915—. *b.* Essex, Vt., Oct. 2, 1885; *s.* Isaac Tichenor and Ella M. (Woodruff) S.; reared on farm; *m.* Alma Harriet Montague, Sept. 18, 1909; *c.* Everett Montague. B.S.A., Ohio State Univ., 1910. Kappa Sigma; Alpha Zeta.

Stothers, Stephen Baxter, agrl. rep., Clinton, Ont.
b. Lucknow, Ont., June 12, 1885; *s.* Wm. and Mary (Andrew) S.; reared on farm. B.S.A., Ont. Agr. Coll., 1916.

Stow, Ralph Albert, co. sec. Y. M. C. A., Medina, O.
General sec. Y. M. C. A., Purdue Univ., 1905–10; co. sec. Morgan Co., Colo., 1910–2; Univ. Denver, 1912–3. *b.* Caledonia, Mich., Mar. 2, 1881; *s.* Alfred Wolcott and Clara Augusta (Beckley) S.; reared on farm; *m.* Fannie Leone Morris, Sept. 1, 1915; *c.* Richard Wolcott, Robt. Morris. B.S., Univ. Mich., 1905.

Strader, Everett B., co. agrl. agt., Marietta, Okla.
Stock farmer, Yukon, Okla., 1909–14. *b.* Buckhannon, W. Va., May 11, 1888; *s.* Jas. W. and Martha M. (Butcher) S.; reared on farm; *m.* Martha Bentley, June 26, 1910; *c.* M. Elizabeth, E. Bentley. Educ. Hill Business Coll.

Strange, Harvey Oliver, co. agrl. agt., Burlington, Colo.
b. Doniphan, Neb., Jul. 28, 1893; *s.* Edwin A. and Della (Creason) S.; reared on farm; *m.* Harriet Jamison, June 22, 1915; *c.* Harriet Louise, Wm. Edwin. B.S.A., Colo. Agr. Coll., 1915. Sigma Phi Epsilon.

Straw, Bert, co. agrl. agt., Coudersport, Pa.
Mem. Food Supply Com. of Pa. *b.* Kerrmore, Pa., Sept. 6, 1892; *s.* Harrison and Emeline (Read) S.; reared on farm; *m.* Gertrude Mary Rush, Nov. 30, 1916. B.S., Penn. State Coll., 1916.

Strivings, Silas L., farmer, Castile, N. Y.
Co. supt. schs., Wyoming Co., N. Y., 6 yrs.; princ. high-schs., 8 yrs.; examiner in Educ. Dept., Albany, 2 yrs. Dir. Wyo. Co. Agrl. Soc.; pres. N. Y. State Fed. Co. Farm Bur. Assoc.; pres. Wyo. Co. Farm Bur.; master Wyo. Co. Grange; adv. com., Fed. Food Administration. *b.* Mt. Morris, N. Y., May 1, 1865; *s.* Sherman S. and Eliza A. (Lowry) S.; reared on farm; *m.* Mae L. Townsend, Oct. 10, 1888; *c.* Roy T., Roscoe S., Victor D. Grad. Geneseo State Normal.

Stuart, William, hort., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.
Asst. bot., Ind. Exp. Sta., 1894–1901; assoc. hort., 1901–2; prof. hort., Univ. Vt. and hort. Exp. Sta., 1902–9; potato expert, U. S. Dept. Agr., 1909–13; hort., 1913—. Sec.-treas. Potato Assoc. of Am. *b.* St. Remi, Que., May 21, 1865 (naturalized 1895); *s.* Norman and Hannah (Elridge) S.; reared on farm; *m.* Ruth Hunt, Feb. 1897; *c.* Donald H., Bernice. B.S.A., Univ. Vt., 1894; M.Sc., Purdue Univ., 1896. Kappa Sigma; Alpha Zeta.

[**Stubbs, W. C.,** p. 313.

Sturdevant, Lazelle Brantly, assoc. prof. an. path., Univ. Neb., Lincoln, Neb.
Asst. instr. an. path., Univ. Neb., 1903–4.; assoc. prof., 1913—. 1st Lieut. Med. Reserve Corps, U. S. Army; major Med. Corps, Neb. Nat. Guard. Joint translator: Leisering's Atlas of the Anatomy of the Horse and the Other Domestic Animals, 1905. *b.* Wahoo, Neb., June 4, 1879; *s.* Brantly E. and Ellen O. (Smith) S.; reared in town; *m.* Florence Leota E. Wilcox, June 4, 1908; *c.* Bobbette Maria. A.B., Univ. Neb., 1902; A.M., 1905; M.D., 1909; B.Sc. in Agr., Univ. Neb., 1915. Sigma Xi; Nu Sigma Nu.

Sullins, Dee Granville, swine ext. specialist, Conn. Agr. Coll., Storrs, Conn.
Teach. rural schs., Ala., 2 yrs.; distr. agrl. sch., Ala., 1913–4; asst. prof. an. husb., N. C. A.&M. Coll., 1916–7; an. husb., Md. Agr. Coll., 1917–8; present position, 1918—. *b.* Hackleburg, Ala., Feb. 19, 1891; *s.* A. M. and Martha J. (Avery) S.; reared on farm. B.S., Ala. Poly. Inst., 1913; B.S.A., Univ. Mo., 1915; M.S., 1916. Gamma Alpha.

Sullivan, Wallace, co. agrl. agt., Hanford, Calif.
Princ. high-sch., Kipp, Kans., 1910–2; instr. agr., Ft. Lewis Sch. Agr., Hesperus, Colo., 1913–5; co. agt., Price, Utah, 1916–7; agt. King Co., Calif., 1917–. *b.* Thompsonville, Ill., Dec. 5, 1887; *s.* Silas and Rhoda J. (Stull) S.; reared on farm; *m.* Mary Elva Bice, Jan. 1, 1911; *c.* Elizabeth I., Donald D., Elsie M. A.B., Ft. Hayes Normal Sch., Kans., 1913; B.S.A., Colo. Agr. Coll., 1916.

Sutherland, Mary Elizabeth, asst. prof. home econ., Wash. State Coll., Pullman, Wash.

Instr. dom. art., Ore. Agr. Coll., 1904–8; night teacher, N. Y. Preparatory Trade Sch., 1908–9; Lindhurst Summer Sch., 1909; city superv. dom. sci. and art., Grand Forks, N. D., 1911–3; ext. serv., N. D. Agr. Coll., 1913–7; present position, 1917—. B.S., Ore. Agr. Coll., 1904; studied Columbia Univ., 1908–9.

Suttle, E. S., co. agrl. agt., Wytheville, Va.

Princ. Cumberland high-sch., Ewing, Va., 1909–10; princ. Pleasant View Sch., Rose Hill, 1910–2; dir. educ., Wash. State Reformatory, Monroe, 1912–4. *b.* Jonesville, Va., Dec. 15, 1886; *s.* S. M. and Elizabeth M. (Legg) S.; reared on farm; *m.* Julia A. Sample, Oct. 3, 1914; *c.* Evclyn, James M. B.A., Emory and Henry Coll., Emory, Va., 1909.

Sutton, Luther Francis, supt. agrl. exp. sta., Wardensville, W. Va.

Prof. higher math., Salem Coll., W. Va., 1906–7; supt. schs., W. Union, W. Va., 1908–10; asst. hort., W. Va. Exp. Sta., 1912–6; supt. Reymann Mem. Farms, 1916—. *Assoc. ed.*, American Fruit Grower. *b.* Blandville, W. Va., Apr. 21, 1881; *s.* F. M. and Hannah (Vannort) S.; reared on farm; *m.* Clellie Lowther, Aug. 14, 1907; *c.* Marion L., Robt. Lee, John Luther. B.S., Salem Coll., 1906; B.S.A., Univ. Wis., 1912.

Swaim, John Earl, boys' club agt., Okla. A.&M. Coll., Stillwater, Okla.

Instr., N. W. State Normal, Alva, Okla., summer 1914; present position, 1915—. Supt. schs., Beaver Co., Okla., 1911–3. *b.* Garden Plains, Kans., June 3, 1885; *s.* Thos. J. and Rachel (Miller) S.; reared on farm; *m.* Camille Blanch Munger, Nov. 24, 1910; *c.* Thos. Frederic, Chas. Eugene, Hollie Elizabeth, John E. Jr. Student Okla. Baptist Coll., 2 yrs.; N. W. State Normal, 1 yr. Delta Sigma Alpha.

Swanger, D. Glen, co. agrl. agt., New Philadelphia, O.

Asst. an. husb., Ohio Exp. Sta., 1916–8. *b.* Wayne Co., O., Nov. 20, 1891; *s.* Wm. S. and Millie (Arnold) S.; reared on farm; *m.* Edith Iola Walter, June 21, 1918. B.S.A., Ohio State Univ., 1916.

Swann, F. A., co. agrl. agt., Marksville, La

b. Elmer, La., Feb. 8, 1892; *s.* H. C. and Sarah (Mace) S.; reared on farm; *m.* Lou Laborde, Nov. 19, 1918. B.S., La. State Univ., 1914.

Swanson, Charles Oscar, assoc. prof. agrl. chem., Kans. State Agr. Coll., Manhattan, Kans.

Princ. high-sch., Jackson, Minn., 1899–1900; sci. teach., high-sch., Canon Falls, 1900–3; instr. agrl. chem. and asst. chem. Exp. Sta., Purdue Univ., 1905–6; asst. chem., Kans. Exp. Sta., 1906–14; assoc. chem., 1914—; asst. prof. agrl. chem., Kans. State Agr. Coll., 1909–14; assoc. prof., 1914—. *b.* Sweden (naturalized as minor); *s.* Magnus and Johanna (Johnson) S.; reared on farm; *m.* Esther C. Holmberg, 1901; *c.* Charlotte Huntington, Esther Hildegarde. A.B., Carleton Coll., 1899; M.S.A., Univ. Minn., 1905.

Sweeny, Mary Elizabeth, prof. nutr. and sanitation and head home econ. dept., Univ. Ky., Lexington, Ky.

Present position, 1912—. Am. del. to Inter. Home Econ. Conference, Ghent, Belgium, 1913. With Y. M. C. A. Overseas Canteen Serv., 1918—. *b.* Lexington, Ky., Oct. 11, 1879; *d.* Wm. Ogles and Margaret Edmonson (Prewitt) S.; reared in city. A.B., Transylvania Coll., 1899; M.S., Univ. Ky., 1906; M.A., Columbia Univ., 1912. Kappa Kappa Gamma.

Sweeton, Arthur Watson, co. agrl. agt., Brattleboro, Vt.

b. Canton Center, Conn., May 20, 1886; *s.* A. W. and Nellie L. (Case) S.; reared on farm; *m.* Helen G. Humphrey, Oct. 11, 1911; *c.* Arthur Watson, Fredrick Humphrey. B.Agr., Cornell Univ., 1909.

Swenehart, John Henry Jr., co. agrl. agt., Crandon, Wis.

Student asst. ent., S. D. State Coll., 1911; agrl. dir., public schs., Jordan, Minn., 1911–4; co. agt., 1914—. *b.* Vandervoort, S. D., Aug. 18, 1890; *s.* John Henry and Bessie Imogen (Babcock) S.; reared on farm. B.S., S. D. State Coll., 1911.

Swenk, Myron Harman, prof. econ. ent. and asst. state ent., Univ. Neb., Lincoln, Neb.

Fellow A. A. A. S. Pres. Wilson Ornith. Club and sec.-treas. Neb. Ornith.

Union. *b.* Polo, Ill., Aug. 8, 1883; *s.* Howard and Susan (Harmon) S.; reared in town and on farm. A.B., Univ. Neb., 1907; M.A., 1908. Sigma Xi; Gamma Sigma Delta.

Switzer, Herbert Brazilla, bact., Cent. Dist., Bur. Chem., 1625 Transportation Bldg., Chicago, Ill.

Asst. dairy bact. and market milk, Purdue Univ., 1912–3; instr., 1913–6; asst. prof., 1916–7; present position, 1917—. *b.* Bradford, N. Y., June 25, 1888; *s.* Almon B. and Lillie (Mapes) S.; reared on farm; *m.* Eleanor M. Hurst, Aug. 14, 1912; *c.* Eleanor Margaret, Ruth Jeanette. B.S.A., Cornell Univ., 1912. Omega Tau Sigma.

Swoboda, Frank G., distr. superv. co. agts., N. E. Wis., Antigo, Wis.

Educ. sec., Milwaukee Y. M. C. A., 1904–6; supt. Wis. Home and Farm Sch., 1906–13; co. agrl. agt., Antigo, Wis., 1913–7; present position, 1917—. Pres. Waukesha Co. Holstein Breeders' Assoc., 1912–3. *b.* Milwaukee Co., Wis., Jan. 19, 1880; *s.* Joseph and Winnie (Kadlec) S.; reared on farm; *m.* Hattie Martenson, Oct. 1, 1907; *c.* Muriel, Winifred, Ralph. B.S.A., Univ. Wis., 1902.

Symons, Thomas Baddeley, dir. ext. serv., Md. State Coll. Agr., College Park, Md.

Assoc. state ent., Md. Agr. Coll., 1903–4; state ent. and prof. ent. and zool., 1904–12; state ent. and dean Sch. Hort., 1912–4; dir. ext. serv., 1914—. Fellow A. A. A. S. Sec. Md. State Hort. Soc., 1906—; sec. Md. Agr. Soc. *b.* Easton, Md., Sept. 2, 1880; *s.* Robt. and Susie (Baddeley) S.; reared on farm; *m.* Susie LaRoche, 1907; *c.* Helen, Isabelle, Josephine. B.S., Md. Agr. Coll., 1902; M.S., 1904; D.Agr. (hon.), 1918.

T

Taber, Louis J., farmer, Barnesville, O.

Master O. State Grange. Mem. Nat. Wheat Price Com., O. Council of Defense. *b.* Mt. Pleasant, O., Sept. 19, 1878; *s.* Joseph John and Mary (Pickett) T.; reared on farm; *m.* Edna Bailey, Oct. 27, 1909; *c.* Joseph Paul, Frances Bailey. Educ. Friends Coll.

Taff, Paul Clifford, ext. prof. farm crops and soils, asst. dir. ext., Ia. State Coll., Ames, Ia.

Assoc. ed., Corn Magazine, 1914. *b.* Funk's Grove, Ill., Feb. 28, 1887; *s.* Alexander and Anna (Kaiser) T.; reared on farm; *m.* Gertrude Carberry, June 1913; *c.* James A., Anne Marie. B.S., Ia. State Coll., 1913. Alpha Zeta.

Taliaferro, W. T. L., prof. farm manag., Md. Agr. Coll., College Park, Md.

Princ. graded sch., Gloucester, Md., 1876–81; princ. Bel Air Acad., Md., 1881–6; prof. agr., Md. Agr. Coll., 1892—; acting dean Div. Agr., 1915–7. Sec.-treas. Md. State Weather Serv., 1903—. *Asst. ed.,* Horsford Democrat, Bel Air, Md., 1886–92. *b.* Gloucester Co., Va., Jul. 20, 1856; *c.* Wm. Booth and Sally (Lyon) T.; reared on farm; *m.* Emily Franklin Johnson, June 18, 1896. A.B., William and Mary Coll., 1876; D.Sc., Md. Agr. Coll. Phi Beta Kappa; Beta Theta Pi.

Talmage, Henry Rayner, farmer, Riverhead, N. Y.

Vice-pres. L. I. Cauliflower Assoc. *b.* Westhampton, N. Y., Dec. 28, 1871; *s.* Nathaniel M. amd Mary F. (Raynor) T.; reared on farm; *m.* Ellen E. Wells, Jul. 25, 1895; *c.* Nathaniel A., Christine. Short-course student, Cornell Univ., 1894.

Tanner, George Leroy, co. agrl. agt., Rigby, Ida.

Minister in Ind., 1915–7. *b.* N. Powder, Ore., Nov. 30, 1891; *s.* Wm. and Lillias (Spiers) T.; reared on farm. B.S., Utah Agr. Coll., 1915.

Tanquary, Maurice Cole, asst. prof. ent., Kans. State Agr. Coll., Manhattan, Kans.

Asst. ent., Univ. Ill., 1907–12; instr. ent., Kans. State Agr. Coll., 1912–3; zool., Crockerland Arctic Exped., 1913–6; present position, 1916—. Fellow Am. Geographic Soc. *b.* Lawrence Co., Ill., Nov. 26, 1881; *s.* Thos. J. and Flora (Cole) T.; reared on farm; *m.* Josephine Woodward Perry, Jul. 1, 1916; *c.* Jean. A.B., Univ. Ill., 1907; M.A., 1908; Ph.D., 1912. Sigma Xi; Phi Kappa Phi; Gamma Sigma Delta.

Tartar, Herman Vance, assoc. prof. agrl. chem. and chem. Exp. Sta., Ore. Agr. Coll., Corvallis, Ore.

b. Airlie, Ore., Jan. 4, 1882; *s.* Nicholas

and Alcida (Johnson) T.; reared on farm; *m.* Stella Parsons; *c.* Vance Parsons, Ruth Virginia. B.S., Ore. Agr. Coll., 1902. Sigma Xi; Gamma Delta Sigma.

Tate, Alfred, co. agrl. agt., Waterloo, Ill.
Supt. high-sch., Rollo, Ill., 1914–8. *b.* Belleville, Ill., May 15, 1883; *s.* John and Martha J. (Reynolds) T.; reared on farm; *m.* Lulu Stolle. B.S., Univ. Ill., 1914.

Taubenhaus, Jacob Joseph, chief div. plant path. and physiology, Tex. Exp. Sta., College Station, Tex.
Assoc. plant path., Del. Exp. Sta., 1909–15; present position, 1916—. *Auth.:* Culture and Diseases of Sweet Peas, 1917; Truck Crop Diseases, 1918; Diseases of Greenhouse Crops, 1918. *b.* Palestine, Oct., 1884 (naturalized 1908); *s.* Meyer and Bet Sheba (Laeh) T.; reared on farm; *m.* Esther Michla Hirchenson, 1910; *c.* Leon Yahir. B.S., Cornell Univ., 1908; M.S., 1909; Ph.D., Univ. Penn., 1913. Sigma Xi.

Taylor, Albert D., lands. arch., 1900 Euclid Ave., Cleveland, O.
Instr. lands. arch., Cornell Univ., 1906–8; non-resident prof. lands. arch., Ohio State Univ., 1915—; lands. arch., Boston, 1908–14; Cleveland, 1914—. Traveled in Europe, 1907. *Auth.:* Shade Trees, Care and Preservation, 1908; Plants for Landscape Planting, 1916. *b.* Carlisle, Mass., Jul. 8, 1883; *s.* Nathaniel A. and Ellen F. (Davis) T.; reared on farm; *m.* Genevieve H. Brainerd, June 16, 1917. B.Sc., Mass. Agr. Coll., 1905; M.S.A., Cornell Univ., 1906. Alpha Sigma Phi; Gamma Alpha; Phi Kappa Phi.

Taylor, Alva Wilmot, prof. social serv., Bible Coll., Columbia, Mo.
Pastor college church and teach. Eureka Coll., 1903–9; present position, 1910—. Mem. Com. on Rural Church, Fed. Council of Churches; chm. Comn. on Social Serv., Disciples of Christ. Del. to Ecumenical Missionary Conference, Edinburg, 1900. Traveled in Europe, 1 yr.; studied Irish tenant problem. *Auth.:* Social Work of Christian Missions, 1911. Contributing ed., Christian Century, Chicago. *b.* Anamosa, Ia., Nov. 15, 1871; *s.* L. S. and Mary Ellen (Mershon) T.; reared on farm; *m.* Mary Gertrude Price, Apr. 30, 1902; *c.* Mary Ruth, McLean. B.Ph., Drake Univ., 1896; M.Ph., Univ. Chicago, 1910.

Taylor, Carl C., asst. prof. sociol., Univ. Mo., Columbia, Mo.
Instr. public speaking, Tex. Univ., 1911–3; instr. econ. and sociol., Mount Holyoke Coll., 1915; present position, 1916—. Has chg. rural church. Mem. Rural Welfare Comn. of Mo. *Auth.:* (with Shurter) One Hundred Questions Briefly Debated, 1913. *b.* Harlan, Ia., Dec. 16, 1884; *s.* L. S. and Mary Ellen (Mershon) T.; reared on farm; *m.* Euphie E. Ramsey, June 24, 1914. B.A., Drake Univ., 1911; M.A., Tex. Univ., 1914; Ph.D., Univ. Mo., 1917. Beta Sigma Phi; Delta Sigma Rho.

Taylor, Charles Arthur, co. agrl. agt., Herkimer, N. Y.
Instr. agr., high-sch., Hancock, N. Y., 1911–4. *b.* Norwich, N. Y., June 6, 1886; *s.* Chas. Byron and Emily Florence (Pulford) T.; reared on farm; *m.* Edna Louise Ferris, Aug. 21, 1912; *c.* Chas. A. Jr., Florence Louise. Student Cornell Univ.

Taylor, Edwin, farmer, Edwardsville, Kans.
Mem. Kans. Sch. Book Comn., 1892–4; pres. Kans. State Hort. Soc., 1906–7; pres. Kans. State Bd. Agr., 1902–3; regent Kans. State Agr. Coll., 1907–13. Mem. Kans. Senate, 1892–6; mem. House of Rep., 1896–8. *b.* Tecumseh, Mich., Jul. 23, 1844; *s.* Joshua and Mary (Comfort) T.; *m.* Lydia Baldwin Swan, Aug. 19, 1879. Student Univ. Mich., 2 yrs.

Taylor, Estes P., dir. agrl. ext. and asst. dean Coll. Agr., Univ. Ariz., Tucson, Ariz.
Asst. bot. and ent., Univ. Ky., 1903; asst. to state ent., Univ. Ill., 1904–6; Colo. Exp. Sta., 1906–8; private hort. and agrl. consultant, 1908–10; Mo. State Fruit Exp. Sta., 1910–2; field hort., Univ. Ida., 1913–5; present position, 1916—. Contributing ed., Better Fruit. *b.* Loveland, Colo., Sept. 17, 1879; *s.* Z. and Winona (Washburn) T.; reared on farm; *m.* Mary Waldo, 1905. B.S.A., Colo. Agr. Coll., 1902.

Taylor, Fred Wellington, dean agr., N. H. A.&M. Coll., Durham, N. H.
With U. S. Dept. Agr., 1901–3; prof. agron., N. H. A.&M. Coll., 1903–16; dean agr., 1916—. *b.* Wooster, O., Jan.

25, 1876; *s.* Samuel and Susan (Albright) T.; reared on farm; *m.* Jessie L. Stocker, Dec. 23, 1903; *c.* Ralph, Julia, Sam. B.Sc., Ohio State Univ., 1900. Sigma Xi; Alpha Zeta.

Taylor, Frederick William, agrst., 3939 W. Seventh Street, Los Angeles, Calif.

Prof. hort., Univ. Neb., 1891–3; sec. Exp. Sta., 1894–5; chief agr. and hort., Omaha Expos.; chief agr., foods and for., Buffalo Expos.; chief agr. and hort., St. Louis Expos. Practised irrig. engin., Denver until 1911; dir. agr., Philippine Isls., 1911–4. Sec. Neb. State Hort. Soc., 1892–5. Fellow Royal Geographic Soc. Traveled widely. Introduced cereals from Russia, 1897. Vice-pres. and general manag., Tucson Farms Co., Tucson, Ariz., 1916—. *b.* Weeping Water, Neb., Apr. 13, 1860; *s.* Wm. and Sophronia (Isbell) T.; *m.* Marion Treat, 1898.

Taylor, George Everett, farmer and stock-breeder, Shelburne, Mass.

Mem. State Bd. Agr., 6 yrs.; mem. State Dairy Bur., 5 yrs. Pres. New England Corn Assoc., 2 yrs.; dir. and pres. Mass. Corn Show; pres. New England Shorthorn Breeders' Assoc.; pres. Franklin Co. Agrl. Soc.; dir. Franklin Co. Farm Bur. *b.* Shelburne, Mass., June 10, 1871; *s.* Geo. Elias and Victoria Amanda (Green) T.; reared on farm; *m.* Lila Harrington, Sept. 27, 1893; *s.* Elliot Hubbard, Dorothy Victoria. B.Sc., Mass. Agr. Coll., 1892. Phi Kappa Phi.

Taylor, Henry Charles, prof. agrl. econ., Univ. Wis., Madison, Wis.

Auth.: Introduction to the Study of Agricultural Economics, 1905. Spent two yrs. in Europe, 1899–1901. *b.* Stockport, Ia., Apr. 16, 1873; *s.* Tarpley E. and Elmira (Martin) T.; reared on farm; *m.* Elizabeth Bruner, 1904; *c.* Esther Elmira. B.Agr., Ia. State Coll., 1896; Ph.D., Univ. Wis., 1902. Phi Kappa Phi; Alpha Zeta.

Taylor, Ralph Hawley, asst. prof. pom., Univ. Calif., Berkeley, Calif.

Instr. agr., Imperial Valley Union High-Sch., Calif., 1910–1; Siskiyou Co. High-Sch., 1911–2; instr. hort., Univ. Calif., 1912–3; instr. pom., 1913–5; asst. prof., 1915—. *Auth.:* Correspondence Course in Almond Culture, 1914, rev., 1917. *b.* Oakland, Calif., Dec. 13, 1884; *s.* Archibald Leard and Fannie Elizabeth (Hawley) T.; reared on farm; *m.* Sarah Elizabeth Grover, June 17, 1917; *c.* Harriet Huston. B.S., Univ. Calif., 1910. Alpha Zeta.

Taylor, William Septimus, head dept. rural life and prof. agrl. educ., Penn. State Coll., State College, Pa.

Assoc. prof. agrl. educ., Univ. Tex., 1913–8; prof. rural educ., Cornell Univ., Feb.–Apr. 1918; present position, 1918—. *b.* Beaver Dam, Ky., Jan. 20, 1885; *s.* H. B. and Ellen (Orah) T.; reared on farm. B.S.A., Univ. Ky., 1912; M.S., Univ. Wis., 1913. Alpha Zeta; Phi Delta Kappa.

Teal, Paul H., co. agrl. agt., Martinsburg, W. Va.

Instr. agr. and sci., high-sch., Devil's Lake, N. D. *b.* Arcadia, Ind., Mar. 20, 1890; *s.* John C. and Mary E. T.; reared on farm and in town. B.S., Purdue Univ. Sigma Xi.

Teall, John Robert, co. agrl. agt., Court House, Syracuse, N. Y.

b. Lysander, N. Y., Jan. 1, 1889; *s.* John S. and Emma (Terpenning) T.; reared on farm; *m.* Jean L. Gooch, Jul. 14, 1914. B.S.A., Cornell Univ., 1914. Alpha Zeta.

Tedmon, Allyn Henry, co. agrl. agt., Basin, Wyo.

b. Denver, Colo., Nov. 11, 1884; *s.* Bolivar S. and Alice C. (Allen) T.; reared in town and on farm; *m.* Helen E. Brow, Nov. 8, 1910; *c.* Allyn H. Jr. B.S., Colo. Agr. Coll., 1908. Alpha Zeta.

Teele, Ray Palmer, irrig. econ., U. S. Dept. Agr., Federal Bldg., Berkeley, Calif.

b. Filmore Co., Minn., Oct. 22, 1868; *s.* Edwin and Sarah (Dearborn) T.; reared in small town; *m.* Mary G. Hazard, Nov. 11, 1897; *c.* Ray P. Jr. A.B., Univ. Neb., 1897; A.M., 1899. Delta Tau Delta.

Teeter, Marcus Elmo, co. agrl. agt., Luverne, Minn.

Teach. sci. and athletics, high-sch., Mitchell, S. D., 1908–9; teach. agr., high-sch., Canby, Minn., 1909–10; silo salesman, 1910–7; farmer, 1913–8. Sec. Rock Co. Agrl. Soc., 1918; co. labor agt., 1918. *b.* Monticello, Ind., Nov. 19, 1883; *s.* Dennis Perry and Maggie

(Reid) T.; reared on farm; *m.* Bernice Ruble, June 28, 1914; *c.* Marcus Junior, Earle Arthur. B.S.A., Purdue Univ., 1908. Alpha Epsilon.

Teeter, Thomas Anderson Hendricks, prof. irrig. engin., Ore. Agr. Coll., Corvallis, Ore.

Asst. civil engin., Purdue Univ., 1907–8; instr., Univ. Penn., 1908–9; instr. mech. and materials of construction, Penn. State Coll., 1909–10; asst. prof. civil engin., Univ. S. Calif., 1910–1; instr. civil engin., Cornell Univ., 1911–3; asst. prof. civil engin., Ore. Agr. Coll., 1913–4; prof. irrig. engin., 1914—. Mem. Ore. Water Power Comn. *b.* Rolling Prairie, Ind., Feb. 12, 1886; *s.* Edwin Jordan and Emily Ann (Ocker) T.; reared on farm; *m.* Katherine Monnell Hitchcock, Sept. 1, 1915; *c.* Robt. Thos. B.S., Purdue Univ., 1907.

Temple, Charles Edward, prof. plant path. and state path., Md. State Coll. Agr., College Park, Md.

Instr. bot., Univ. Mich., 1909–11; prof. bot. and state bot., Univ. Ida., 1911–4; present position, 1914—. *b.* Stanberry, Mo., Nov. 4, 1877; *s.* Geo. B. and Susan (Ross) T.; reared on farm; *m.* Martha Gladstone, 1907; *c.* Margaret E., Martha Ross, Helen D., Robt. Gladstone. A.B., Univ. Neb., 1906; A.M., 1909.

Templeton, George Streator, prof. an. husb. and an. husb. Exp. Sta., Ala. Poly. Inst., Auburn, Ala.

Instr. an. husb., Tex. A.&M. Coll., 1911–2; asst. prof., 1912–3; present position, 1913—. Mem. Live-Stock Sanitary Bd. for Ala.; sec. Ala. Live-Stock Assoc. *b.* Rich Hill, Mo., Jan. 1. 1887; *s.* Geo. and Emma (Streator) T.; reared in town; *m.* Catherine Bradley, Sept. 19, 1912. B.S.A., Univ. Mo., 1911. Phi Kappa Phi; Gamma Sigma Delta.

Tenny, Lloyd Stanley, fruit-grower, Hilton, N. Y.

Asst. path. U. S. Dept. Agr., 1902–4; pom., 1904–8; first state leader farm burs., N. Y., 1911–2; sec. manag., Fla. Growers' and Shippers' League, Orlando, Fla., 1913–6. Chm. exec. com., Fla. State Plant Bd.; sec. Fla. East Coast Growers' Assoc., 1917; vice-pres. Eastern Fruit and Produce Exchange, Rochester, N. Y., 1918; vice-pres. N. American Fruit Exchange, N. Y. City, 1918; sec. Coral Reef Nurseries, Miami, Fla. *b.* Hilton, N. Y., Dec. 24, 1876; *s.* Delos P. and Fannie (Lee) T.; reared on farm; *m.* Abby Warn, June 1, 1907; *c.* Fannybelle Lee, Stanley Warn. Student Univ. Rochester and Cornell Univ. Alpha Delta Phi.

Terrill, Bertha Mary, prof. home econ., Univ. Vt., Burlington, Vt.

Teach. acad., Milton, N. H., 1895–6; teach. Greek, Abbot Acad., Andover, Mass., 1896–1900; prof. home econ., Sch. Religious Pedagogy, Hartford, Conn., 1901–9; present position, 1908—. Traveled in Europe, 1913. *b.* Morristown, Vt., Dec. 11, 1870; *d.* Newton A. and Mary (Cheney) T.; reared on farm. A.B., Mt. Holyoke Coll., 1895; M.A., Univ. Chicago, 1908.

Thatcher, Herbert K., co. agrl. agt., Russellville, Ark.

Asst. athletics, 1914–5. In Coast Artillery, U. S. Army, 1918—. *b.* McCrakin, Kans., Feb. 6, 1891; *s.* E. L. McCurry and Eva (Noll) M.; adopted by aunt, Mrs. S. B. Thatcher; reared on farm; *m.* Lila Lorain Dalton, Aug. 14, 1915; *c.* Herbert K. Jr. B.S.A., Univ. Mo., 1915.

Thatcher, Roscoe Wilfred, dean Dept. Agr. and dir. Exp. Sta., Univ. Minn., University Farm, St. Paul, Minn.

Teach., high-sch., Beatrice, Neb., 1899–1900; asst. chem., Neb. Exp. Sta., 1900–1; Wash. Exp. Sta., 1901–3; chem., 1903–13; dir., 1907–13; prof. agrl. chem. and head dept., Wash. State Coll., 1900–3; prof. agrl. chem., Univ. Minn., 1913–7; present position, 1917—. Fellow A. A. A. S. Pres. Am. Soc. Agronomy, 1912. *b.* Chatham Center, O., Oct. 5, 1872; *s.* Chas. P. and Lida E. (Packard) T.; reared on farm; *m.* Nellie Elizabeth Fulmer, Aug. 25, 1896; *c.* Lida M. B.Sc., Univ. Neb., 1898; M.A., 1901. Sigma Xi; Phi Beta Kappa; Alpha Zeta; Alpha Theta Chi.

Thom, Charles, mycologist in chg. Microbiol. Lab., Bur. Chem., U. S. Dept. Agr., Washington, D. C.

Instr. biol., bot. and asst. prof. bot., Univ. Mo., 1897–1902; asst. bot., Cornell Univ., 1902–4; mycologist in cheese invest., Bur. An. Ind., 1904–14; Bur. Chem., 1914—. Del. to Inter. Dairy Congress, Paris, 1906. *Auth.:* (with Fisk) The Book of Cheese, 1918. *b.* Minok, Ill.,

Nov. 11, 1872; *s.* Angus S. and Louisa E. (Herrick) T.; reared on farm; *m.* Ethel Winifred Slater, Dec. 20, 1906; *c.* Beatrice, Chas. Richard. A.B., Lake Forest Coll., 1895; A.M., 1897; Ph.D., Univ. Mo., 1899.

Thomas, Charles David, co. agrl. agt., Concordia, Kans.

Asss. agt. Jewell Co., Kans., Sept.-Dec. 1917; agt. Cloud Co., 1917—. *b.* Baxter Springs, Kans., Jul. 1, 1894; *s.* R. O. and Virginia E. (Cordell) T.; reared on farm. B.S.A., Kans. State Agr. Coll. Gamma Sigma Delta; Sigma Phi Delta.

Thomas, Ernest Kinsey, state leader club work, R. I. State Coll., Kingston, R. I.

Sec. R. I. Hort. Soc. Supt. gardens, bot. dept., Univ. Penn., 1907–8. Fellow Royal Hort. Soc., London. *b.* Cacrsws, Wales, June 5, 1883 (naturalized 1912); *s.* David Kinsey and Sarah (Kinsey) T.; reared on farm; *m.* Alice E. Beale, Oct. 11, 1913; *c.* Elizabeth Kinsey, Barbara Kinsey. Educ. Wales and Royal Bot. Gardens, Kew, London, England.

[**Thomas, G.,** p. 313.

Thomas, Herbert J., co. agrl. agt., Sheridan, Wyo.

Farming, Colo., 8 yrs. *b.* Barneveld, Wis., Sept. 3, 1884; *s.* Enoch S. and Margaret E. (Thomas) T,; reared in city and on farm; *m.* Elva Harker, Nov. 23, 1910; *c.* Robt. H., Grace E. B.S., Colo. Agr. Coll. Alpha Zeta.

Thomas, James Lloyd, co. agrl. agt., Geneva, Neb.

Princ. high-schs., Neb., 3 yrs.; instr. agron., Univ. Neb., 2½ yrs. *b.* Dawson, Neb., Mar. 3, 1885; *s.* David L. and Eleanor I. (Jones) T.; reared on farm; *m.* Mary E. Hall, June 14, 1917. B.Sc., Univ. Neb., 1909.

Thomas, John Calvin, co. agrl. agt., Troy, Ala.

Farmer, 1893–1915; agt. Pike Co., Ala., 1915—. *b.* Inverness, Ala., Feb. 27, 1859; *s.* Dave and Margaret T.; reared on farm; *m.* Julia McQueen, Feb. 9, 1893; *c.* Mary, Jesse, Preston, Maggie. Grad. Tuskegee Inst.

Thomas, Roy Hilman, superv. Lowe's Grove Farm Life Sch., Durham, N. C.

Dir. agrl. educ. in Durham Co., N. C. Organizer and sec.-treas. Lowe's Grove Credit Union. *b.* Cayce, Ky., Feb. 9, 1891; *s.* Fletcher Thos. and Lulu (Wilkins) T.; reared on farm. A.B., Univ. Ky., 1913; studied Cornell Univ., 1916 and 1918.

Thomason, Junie Marcus, co. agrl. agt., Batesville, Miss.

Teach. sci., Tallapoosa Co. high-sch., Dadesville, Ala., 1916–7; agrl. agt., DeKalb Co., Tenn., 1917–8; present position, 1918—. *b.* Millport, Ala., Sept. 17, 1893; *s.* James and Martha (McNeil) T.; reared on farm. B.S., Ala. Poly. Inst., 1916.

Thompson, Benjamin Lee, asst. prof. an. husb., Ohio State Univ., Columbus, O.

Prof. an. husb. and dairying, Dunn Co. Sch. Agr., Menomonie, Wis., 1908–9; instr. an. husb., S. D. State Coll., 1909–12; assoc. prof., 1912–8; present position, 1918—. *b.* Pataskala, O., Mar. 31, 1884; *s.* Chas. P. and Cora Belle (McMillen) T.; reared on farm; *m.* Harriet Rebecca McCoy, Sept. 15, 1909; *c.* Frances, Chas. Lester, Benjamin Lee Jr. B.S.A., Ohio State Univ., 1908.

Thompson, Carl William, specialist in rural organization and project leader food surveys, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Asst. prof. econ., S. D. State Univ., 1905–8; prof. econ. and sociol., 1908–10; asst. prof. econ., Univ. Minn., 1910–1; assoc. prof. and dir. bur. research in agrl. econ., 1911–3; present position, 1913—. *b.* Evansville, Minn., Nov. 21, 1879; *s.* Wm. and Sina (Bordsen) T.; reared in town; *m.* Hannah Hegge, Aug. 2, 1913; *c.* C. Wm. Jr., Helen Aileen, Ruth Eleanor. A.B., S. D. State Univ., 1903; A.M., Harvard Univ., 1904.

Thompson, Charles Henry, asst. prof. hort., Mass. Agr. Coll., Amherst, Mass.

Instr. bot., Washington Univ., 1893–5; asst. bot., Mo. Bot. Gard., 1895–6; instr., Mo. State Univ., 1896–7; chg. dept. succulent plants, Mo. Bot. Gard., 1897–9, 1904–12; asst. bot., 1912–5; present position, 1915—. Bot. explorations, Mexico, summer 1910. *b.* Turlock, Calif., June 23, 1870; *s.* Rufus Sheldon and Clarinda Elizabeth (Baker) T.; reared on farm and in town; *m.* Bertha Henney, Jan. 30, 1900; 2d, Cora J. Hogan, Nov. 2, 1912; *c.* Frances Clarinda,

Rufus Henney. B.Sc., Kans. State Agr. Coll., 1893; M.Sc., 1898. Sigma Xi.

Thompson, Elmer John, prof. an. husb., N. D. Agr. Coll., Agricultural College, N. D.

Sec. N. D. Stallion Registration Bd. *b.* Nameoki, Ill., Apr. 1, 1886; *s.* John Wesley and Frances Jane (Cain) T.; reared in town and on farm; *m.* Ethyle Clarice Petersou, Aug. 28, 1915; *c.* Marth Wesley. B.S.A., Univ. Ill., 1910. Phi Sigma Kappa; Alpha Gamma Rho; Phi Kappa Phi.

Thompson, Frank F., prof. rural educ., State Normal, Spriugfield, Mo.

Princ. schs., Polo, Mo., 1896–1903; comnr. of schs., Caldwell Co., 1897–1902; supt. schs., Canon City, Colo., 1903–9; supt. schs., Marshall, Mo., 1910–2; present position, 1912—. *b.* Viuton, Ia., Aug. 2, 1866; *s.* Richard R. and Henrietta (Leamer) T.; *m.* Ethel Barton Swearingen, June 28, 1905. B.A., Univ. Mo., 1896; M.A., 1917. Phi Delta Kappa.

Thompson, George Eldon, agron., Ariz. Exp. Sta., Tucson, Ariz.

Sci. asst., U. S. Dept. Agr., 1911–2; distr. agrl. agt., Kans., 1913; supt. state expl. farms, Kans., 1914–5; crop specialist, Kans. State Agr. Coll., 1916–7; present position, 1918—. *b.* Wabannsee Co., Kans., Jul. 30, 1889; *s.* C. H. aud Minnie (Raud) T.; reared on farm; *m.* Wilma Kammeyer, Juue 1916. B.S.A., Kans. State Agr. Coll., 1911. Alpha Zeta.

Thompson, Homer C., hort., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Asst. in hort., Ohio State Univ., 1908–9; asst. prof. hort., Miss. A.&M. Coll., 1909–10; prof. hort., Clemson Agr. Coll., 1910–1; present position, 1911—. *b.* Etchison, Md., Jan. 5, 1885; *s.* M. F. and Julia A. (Duvall) T.; reared on farm; *m.* Clara Smith, June 29, 1912; *c.* Homer Smith. B.Sc., Ohio State Univ., 1909.

Thompson, John Bert, forage crop specialist, Fla. Exp. Sta., Gainesville, Fla.

Fruit farmer, San Bernardino Co., Calif., 1905–6; asst. hort., N. Mex. A.&M. Coll., 1906; agrl. insp. and supt. Singalong Exp. Sta., Manila, P. I., 1907–9; special agt. in chg. Guam Exp. Sta., 1909–14; supt. Glenwood Substa., Hawaii, 1915–7; present position, 1917—. *b.* Georgeville, Pa., Aug. 14, 1878; *s.* John Gray and Mary J. (Dilts) T.; reared on farm; *m.* Georgia Cobb, Sept. 14, 1917; *c.* Ernestyn Allen. B.S., Kans. State Agr. Coll., 1905.

Thompson, John C., co. agrl. agt., Lewistown, Pa.

Agrl. ext. dept., Penn. State Coll., 1916; agt. Mifflin Co., 1917—. *b.* Lancaster Co., Pa., Mar. 26, 1891; *s.* John Holmes and Ida (Quigley) T.; reared on farm. B.A., Lincoln Univ., 1912; B.S., Penn. State Coll., 1916.

Thompson, Mark Joseph, supt. N. E. Exp. Sta., Univ. Minn., Duluth, Minn.,

Distr. superv., U. S. Dept. Agr., 1912–3; present position, 1913—. *b.* Winsted, Minn., Jul. 28, 1884; *s.* John P. and Ann (Mulvaney) T.; reared on farm; *m.* Leola M. Howard, Jan. 12, 1915; *c.* Genevieve Ann, Arthur. B.S., Univ. Minn., 1911; M.S., 1912. Sigma Xi; Alpha Zeta.

Thompson, Warren Simpson, instr. sociol., Univ. Mich., Ann Arbor, Mich.

Instr., Neb. Wesleyan Univ., 1910–1; present position, 1913—. Special attention to rural population problems. *Auth.:* Population: A Study in Malthusianism, 1915. *b.* Weeping Water, Neb., Apr. 29, 1887: *s.* A. H. and Minerva (Hutchinson) T.; reared in town; *m.* Etha Dewey, Sept. 1, 1915. A.B., Neb. Wesleyan Univ., 1907; A.M., Univ. Neb., 1911; Ph.D., Columbia Univ., 1915.

Thoms, Craig Sharp, prof. sociol., Univ. S. D., Vermilliou, S. D.

In miuistry, 1891–1915; present position, 1915—. State rep. in nat. morality codes contest, 1917. *b.* Elgin, Ill. Dec. 20, 1860; *s.* Robt. and Jane (Patrick) T.; reared on farm; *m.* Effie Belle Walker, 1892. A.B., Northwestern Univ., 1888; A.M., 1891; B.D., Univ. Chicago, 1891; Ph.D., Shurtleff Coll., 1901. Phi Kappa Psi.

Thomson, Andrew Samuel, asst. prof. market-gard., Mass. Agr. Coll., Amherst, Mass.

Supt. schs., Mass., 1898–1910; teach. agr. and educ., Clarion Normal, Pa., 1912–5; present position, 1915—. *b.* Ont., Canada, Sept. 11, 1868 (naturalized 1889); *s.* John K. and Nancy T.; reared on farm; *m.* Ida M. Fiske. Ph.B., Brown Univ., 1898; A.M., Columbia Univ., 1912.

Thomson, Edward H., asst. chief, Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.

b. Delhi, N. Y., Mar. 6, 1887; *s.* Wm. J. and Belle J. (Mable) T.; reared on farm; *m.* Ethel M. Cutts, Nov. 3, 1915; *c.* Norman E., Marion C. B.S.A., Cornell Univ., 1909; M.S.A., 1911. Sigma Xi; Sigma Phi Sigma.

Thorfinnson, Matthias Adolf, co. agrl. agt., Chinook, Mont.

b. Hensel, N. D., Jul. 10, 1893; *s.* Thorlakur and Gudridur (Skulason) T.; reared on farm; *m.* Olga Inez Ross, Jul. 5, 1918. B.S.A., N. D. Agr. Coll., 1917. Phi Kappa Phi.

Thornber, Walter Strickland, dir. agrl. ext., Wash. State Coll., Pullman, Wash.

Instr. hort. and bot., S. D. State Coll., 1897–1904; prof. hort., Wash. State Coll., 1905–11; dir. Lewiston Clarkston Sch. of Hort., and chief hort., Lewiston Land and Water Co., 1911–4; present position, 1915—. *b.* Rantoul, Ill., Mar. 21, 1874; *s.* James and Ann (Strickland) T.; reared on farm; *m.* Ethelyn L. Henry, Sept. 14, 1906; *c.* Gordon H., Merrill S., Evelyn B. B.S., S. D. State Coll., 1897; M.S., Cornell Univ., 1905.

Thornburg, Mark George, prof. an. husb., Ia. State Coll., Ames, Ia.

Farmer, 1902–8. *b.* Linden, Ia., June 8, 1882; *s.* Thos. A. and Jennie (Vestal) T.; reared on farm; *m.* Blanche Scholes, Apr. 27, 1904. B.S., Ia. State Coll., 1910. Phi Kappa Psi; Alpha Zeta.

Thorne, Charles Embree, dir. Ohio Agr. Exp. Sta., Wooster, O.

Farm manag., Ohio State Univ., 1877–81; assoc. ed. Farm and Fireside, 1881–8; present position, 1887—. Pres. Am. Soc. Agron., 1914–5; pres. Soc. for Promotion Agrl. Sci., 1916; pres. Assoc. Am. Agrl. Colls. and Exp. Stas., 1916. *Auth.:* Farm Manures, 1913. *b.* Greene Co., O., Oct. 4, 1846; *s.* Elijah and Mary (Charles) T.; reared on farm; *m.* Viola J. Hine, May 10, 1871; *c.* Bessie M., Chas. Brooks. M.S.A. (hon.), Ohio State Univ., 1890.

Thorpe, Francis Newton, prof. political sci. and constitutional law, Univ. Pittsburgh, Pittsburgh, Pa.

Fellow, lect. and prof. Am. constitutional history, Univ. Penn., 1885–98; present position, 1910—. *Auth.:* An American Fruit Farm, 1915, and numerous volumes on American history and constitutional law. *b.* Swampscott, Mass., Apr. 16, 1857; *s.* Judah Welles and Rosanna (Porter) T.; reared in town; *m.* Marion Hayward Shreve, 1895; *c.* Marion, Edgerton. Ph.B., Syracuse Univ., 1883; LL.D., 1907; admitted to bar, 1885. Delta Tau Delta.

Throckmorton, Archibald Hall, prof. law, Western Reserve Univ., Cleveland, O.

Dean Law Sch., Central Univ., Danville, Ky., 1902–11; prof. law, Ind. Univ., Bloomington, 1911–4; present position, 1914—. *Ed.,* Law for the Farm column, Farm Journal, Philadelphia, 1901—. *b.* Loudoun Co., Va., Mar. 28, 1876; *s.* Mason and Annie (Humphrey) T.; reared on farm; *m.* Julia Elizabeth Painter, June 29, 1899. A.B., Roanoke Coll., 1896; A.M., Princeton Univ., 1897; LL.B., Washington and Lee Univ., 1900.

Throckmorton, Ray Iams, prof. soils, Kans. State Agr. Coll., Manhattan, Kans.

Asst. soil survey, Kans. State Agr. Coll., 1911–2; asst. prof. soils, 1913–6; assoc. prof. agron., 1916–8; prof. soils, 1918—. *b.* Waynesburg, Pa., Dec. 10, 1886; *s.* J. B. and Carrie (Iams) T.; reared on farm; *m.* Marcia Story, June 10, 1916. B.S.A., Penn. State Coll., 1911. Alpha Zeta; Pi Kappa Alpha; Phi Kappa Phi.

Thuman, Charles Herman, co. agrl. agt., Archer City, Tex.

b. near Lincoln, Ill., Mar. 11, 1881; *s.* J. H. and Anna (Flatemersch) T.; reared on farm. Student Univ. Neb.

Thurston, Arthur Searle, asst. prof. flor., Ia. State Coll., Ames, Ia.

Asst. flor., Mass. Agr. Coll., 1914–6; present position, 1916—. *b.* Everett, Mass., Dec. 10, 1891; *s.* Ralph and Nellie (Searle) T.; reared in town. B.Sc., Mass. Agr. Coll., 1914; M.Sc., 1916. Alpha Gamma Rho.

Tibbs, Jollie Hilliard, co. agrl. agt., Fincastle, Va.

Princ. Cent. Luzon Agrl. Sch., Munoz, Nueva Ecija, Philippine Isls., 1913–7. *b.* Sodus, Mich., Oct. 31, 1886; *s.* Henry Lewis and Elizabeth (Aumack) T.; reared

on farm; *m.* Hannah Williamson, May 10, 1912. B.S., Mich. Agr. Coll., 1912.

Tiebout, George Leroy, hort. Exp. Sta. and ext. div., La. State Univ., Baton Rouge, La.

Hort., La. Exp. Sta., 1908–14; present position, 1914—. *b.* Ennis, Tex., Aug. 15, 1884; *s.* C. A. and Margaret Eugenia (Wagonhauls) T.; reared on farm; *m.* Muriel Kate Watson, Nov. 5, 1907; *c.* Carolyn Elizabeth, Muriel Eugenia, Geo. Leroy, Evelyn Howard. B.S., La. State Univ., 1906.

Tiffany, Ross K., project manag., U. S. Reclamation Serv., Yakima, Wash.

b. Union, Ia., June 11, 1879; *s.* Walter J. and Harriet Emily (Kerr) T.; reared on farm; *m.* Martha Luella Eichar, Jul. 3, 1903; *c.* Ross K. Jr., June. B.C.E., Cornell Coll., 1901; C. E., 1904.

Tillson, Charles Burritt, co. agrl. agt., Plattsburg, N. Y.

Farm supt., 1907–13; agt. Clinton Co., 1913—. *b.* Morris, N. Y., Oct. 5, 1882; *s.* Albert H. and Chloe (Hendrix) T.; reared on farm; *m.* Georgena Johnson, June 8, 1910; *c.* Ena Margaret, Chloe Eleanor, Chas. B. Jr. B.S.A., Cornell Univ., 1907.

Tinker, Eugene F., co. agrl. agt., Damar, Kans.

Princ. high-sch., 2 yrs.; supt. schs., 3 yrs. *Auth.:* The Singerman. *b.* Mankato, Kans., Mar. 3, 1890; *s.* C. E. and Eunice (Parrott) T.; reared on farm and in town; *m.* Mildred Brown, Aug. 6, 1913; *c.* Robt. Eugene. B.Ped., Ph.B., Kans. Wesleyan Univ., 1913.

Tinkham, Horace W., farmer, Warren, R. I.

Trustee Providence Market Gardeners' Assoc.; dir. New England Milk Producers' Assoc.; vice-pres. Eastern States Agrl. Expos.; dir. Eastern States Farmers' Exchange; dir. Providence Farmers' Exchange; mem. R. I. State Comn. Agrl. Inquiry. *b.* Middleboro, Mass., Dec. 29, 1858; *s.* Andrew L. and Dorothy P. (King) T.; reared in village; *m.* Mary E. Slade, 1882; *c.* Geo. K. M.Agr. (hon.), R. I. State Coll., 1915.

Tisdale, William Herbert Jaffray, prof. an. husb., Univ. Sask., Saskatoon, Sask.

Agrl. rep., Ont., 1913–4. *b.* Paris, Ont., Apr. 11, 1891; *s.* Herbert Lawrence and Minnie (Jackson) T.; reared on farm; *m.* Edith Rose Black, Sept. 29, 1915. B.S.A., Ont. Agr. Coll., 1913.

Titus, Edward Gaige, sugar-plant invest., U. S. Dept. Agr., Salt Lake City, Utah.

Asst., Colo. Agr. Coll., 1900–1; field asst. state ent., Ill., 1901–3; special field agt., Bur. Ent., U. S. Dept. Agr., 1903–7; assoc. prof. zool. and ent., Utah Agr. Coll., 1907–8; prof., 1908–16; ent., Exp. Sta., 1907–16. Tech. sugar-plant seed-production, 1916—. Mem. Utah State Hort. Comn. Pres. Utah Acad. Sci., 1912; sec. Utah Eugenics Soc., 1912—. Fellow A.A.A.S. *b.* Quaker Street, N. Y., May 26, 1873; *s.* Albert C. and Mary F. (Gaige) T.; reared on farm; *m.* Laura Armstrong, Aug. 29, 1900; *c.* Albert Clarence, James B., Alice B. B.S., Colo. Agr. Coll., 1899; M.S., 1901; Sc.D., Harvard Univ., 1911.

Toan, Lewis Austin, asst. state leader co. agts., Cornell Univ., Ithaca, N. Y.

Teach. agr., high-sch., Perry, N. Y., 1911–3; agt. Monroe Co., 1913–7; present position, 1918—. *b.* Perry, N. Y., Oct. 3, 1886; *s.* Chas. H. and Stella (Wylie) T.; reared on farm. B.S.A., Cornell Univ., 1908. Sigma Phi Epsilon.

Tomhave, William Henry, prof. an. husb., Penn. State Coll., State College, Pa.

Asst. an. husb., Penn. State Coll., 1907–8; live-stock expert, Chinese govt., 1908–10; live-stock ext., Univ. Minn., 1910–2; present position, 1912—. *b.* Fergus Falls, Minn., Dec. 19, 1881; *s.* Peter and Wilhelmina (Ladwig) T.; reared on farm; *m.* Viola Marsden, Jul. 7, 1910; *c.* Viola E. B.S.A., Univ. Minn., 1907. Alpha Zeta.

Tompson, Harold F., prof. and head dept. market-gard., Mass. Agr. Coll., Arlington, Mass.

Teach. hort., Mt. Hermon Mass., 1 yr.; instr. market-gard. and supt. hort. field work, Mass. Agr. Coll., 1907–10; commercial market-gard., 1910—; present position, 1915—; supt. market-gard. field sta., Lexington. *b.* Westford, Mass., June 29, 1885; *s.* Joseph H. and Fannie F. (Reade) T.; *m.* Mildred F. Wheeler, Sept. 26, 1914; *c.* 1 son. B.Sc., Mass. Agr. Coll., 1905. Phi Kappa Phi; Kappa Sigma.

Tomson, Walter Edwin, dairy husb., Mont. State Coll. and U. S. Dept. Agr., Bozeman, Mont.

Asst. dairy husb., Kans. State Agr.

Coll., 1912–4; instr., 1914–7; present position, 1917—. *b.* Topeka, Kans., Nov. 26, 1887; *s.* Frederick Brown and Susie (Bay) T.; reared on farm; *m.* Alice Maude Douglas, June 5, 1915. B.S., Kans. State Agr. Coll., 1912.

Toole, Eben Henry, asst. prof. plant physiology and path., Purdue Univ., LaFayette, Ind.

Chg. plant and seed farm, Baraboo, Wis., 1911–4; asst. bot., Univ. Wis., 1915–6; instr. bot., Kans. State Agr. Coll., 1916–7; present position, 1917—. *b.* Baraboo, Wis., Jan. 6, 1889; *s.* Wm. and Elizabeth (Marriott) T.; reared on farm; *m.* Katherine Elizabeth Turvill, June 20, 1912; *c.* Eben Richard, Elizabeth Lane, Wm. Daniel. B.A., Univ. Wis., 1915; M.A., 1916.

Tormey, John Lawless, fieldman, Am. Shorthorn Breeders' Assoc., Chicago, Ill.

Princ. ward sch., Chippewa Falls, Wis., 1903–4; instr. an. husb., Univ. Wis., 1908–13; asst. prof., 1913–7; assoc. prof., 1917–8; present position, 1918—. *b.* Fennimore, Wis., June 12, 1881; *s.* Thos. and Margaret (Lawless) T.; reared on farm; *m.* Margaret Lynch, June 19, 1912; *c.* John L. Jr., Margaret, Elizabeth, Mary. B.S.A., Univ. Wis., 1907. Alpha Zeta.

Tottingham, William Edward, assoc. prof. agrl. chem., Univ. Wis., Madison, Wis.

Asst. chem., Mass. Exp. Sta., 1903–4; fellow in chem., Mass. Agr. Coll., 1904–5; asst. chem., N. Y. Agr. Exp. Sta., Geneva, 1905–6; instr. and research asst. chem., Univ. Wis., 1906–10; asst. prof., 1910–7; assoc. prof., 1917—. Fellow A. A. A. S. *Auth.:* (with E. B. Hart) General Agricultural Chemistry, 1910; (with J. W. Ince) Chemistry of the Farm and Home, 1916. *b.* Templeton, Mass., Nov. 21, 1881; *s.* Edwin H. and Maria (Shearer) T.; reared on farm; *m.* Ethel Regena Lerch, Feb. 2, 1914; *c.* Elaine. B.Sc., Mass. Agr. Coll., 1903; M.Sc., Univ. Wis., 1908; Ph.D., Johns Hopkins Univ., 1917.

Totty, Charles Henry, florist and importer, Madison, N. J.

Pres. Soc. Am. Florists; past pres. N. Y. Florists' Club, Morris Co. Florists' Soc., Nat. Chrysanthemum Soc.; corresponding foreign mem. Nat. Chrysanthemum Soc. of England. Del. to Inter. Flower Show, London, 1912; inter. juror, Panama-Pacific Expos., 1915. Specialty, chrysanthemums and roses. *b.* Shropshire, England, Sept. 8, 1873 (naturalized 1899); *s.* Geo. and Elizabeth (Perks)T.; reared in village; *m.* Margaret Cronin, 1896; *c.* Helen Marie.

Tracy, Samuel Mills, agron., U. S. Dept. Agr., Biloxi, Miss.

Prof. bot. amd hort., Univ. Mo., 1877–87; dir. Miss. Exp. Sta., 1887–97; special agt., U. S. Dept. Agr., 1897–1915; present position, 1915—. Served in Civil War. Pres. Mo. State Hort. Soc., 1886; pres. Soc. for Promotion Agrl. Sci., 1910–1. Fellow A. A. A. S. *Auth.:* Flora of Missouri, 1886; Flora of the Southeru Uuited States, 1899. *b.* Hartford, Vt., Apr. 30, 1847; *s.* Samuel and Emeline (Newton) T.; *m.* Martha A. Terry, Jul. 23, 1874 (d. 1904). B.S., Mich. Agr. Coll., 1868; M.S., 1871.

Tracy, William W., seed-grower, Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Formerly asst. prof. hort., Mich. Agr. Coll. *b.* Hudson, O., May 21, 1845; *s.* Stephen and Alice (Dana) T.; reared in town; *m.* Mary Woodbridge; 2d, Mattie Flandnau; *c.* Wm. Woodbridge, Harry, Stephen, Johu, Katherine, Alice. D.Sc., Mich. Agr. Coll.

Tracy, William Woodbridge Jr., tech. sugar beet invest., U. S. Dept. Agr., Rocky Ford, Colo.

Seed grower, Ida., 1910–4. *b.* Lansing, Mich., May 6, 1872; *s.* Wm. Warner and Mary Bartlett (Woodbridge) T.; reared on farm; *m.* Gertrude Hunawill, Dec. 27, 1916. B.S., Mich. Agr. Coll., 1895.

Trask, Robert Palmer, co. leader boys' and girls' club work, Waltham, Mass.

Ext. iustr. poultry, Cornell Univ., 1911–3; conductor farmers' insts., N. Y. State Dept. Agr., 1914–5; co. club leader, Springfield, Mass., 1915–8; present position, 1918—. Farmer, N. Wilbraham, Mass., 1914–8. *b.* Haverhill, Mass., Oct. 8, 1888; *s.* Fred R. and Grace D. (Palmer) T.; reared on farm; *m.* Grace Evelyn Smith, June 1, 1913; *c.* Owen Smith, Elinor Viola, Robt. Palmer Jr. Student Cornell Univ., 3 yrs.

Trimble, William, prof. hist. and social sci., N. D. Agr. Coll., Agricultural College, N. D.

Acting princ., Houston Sch., Spokane,

Wash., 1903–4; instr. hist., high-sch., Spokane, 1904–8; present position, 1909—. *Auth.:* Mining Advance into the Inland Empire, 1914; Introductory Manual of Agrarian History, 1917. *b.* Wooster, O., 1872; *s.* Joseph B. and Mary E. (Deemer) T.; reared in city and country; *m.* May Belle Hale, 1907; *c.* Sterrett Hale, Mary Elizabeth. B.A., Denison Univ., 1900; M.A., Wash. State Coll., 1903; Ph.D., Univ. Wis., 1909. Phi Beta Kappa.

Troop, James, prof. ent. and ent. Exp. Sta., Purdue Univ., LaFayette, Ind.

Prof. hort. and ent. and hort. and ent. Exp. Sta., Purdue Univ., 1884–1912; prof. ent. and ent. Exp. Sta., 1912—. Ind. State ent., 6 yrs.; sec. Ind. Hort. Soc., 6 yrs. *Auth.:* Melon Culture, 1911. *b.* Bennington, N. Y., Mar. 14, 1853; *s.* Andrew and Orrilla (Wilkins) T.; reared on farm; *m.* Cora L. Chamberlin, Dec. 30, 1884; *c.* Helen L. B.S., Mich. Agr. Coll., 1878; M.S., 1882.

Trosper, Earl J., distr. agrl. agt., Hannibal, Mo.

b. Beattie, Kans., Jan. 5, 1888; *s.* Mat. and Ellen (Conger) T.; reared on farm. B.S., Kans. State Agr. Coll., 1910.

Trowbridge, Edwin Alfonso, prof. an. husb., Univ. Mo., Columbia, Mo.

Asst. an. husb., Univ. Mo., 1906–7; instr., 1908–10; asst. prof., 1910–1; prof. and chm. dept., 1911—. Sec. Mo. Draft Horse Breeders' Assoc. Judge at live-stock shows; supt. Mo. live-stock at Panama-Pacific Expos., 1915. *b.* Mondovi, Wis., Apr. 27, 1885; *s.* C. L. and Alma Mary (Thames) T.; reared in country town; *m.* Alice Adella Goddard, Jul. 3, 1907; *c.* 2 sons. B.S.A., Univ. Wis., 1906. Alpha Zeta.

Trowbridge, Oliver Bert, instr. voc. agr., Pulaski, N. Y.

b. Andover, N. Y., Aug. 31, 1889; *s.* Lee M. and Myrtie (Davis) T.; reared on farm; *m.* Evelyn Scheutzow, Jul. 31, 1917. Student Alfred Univ.

Trowbridge, Perry Fox, dir. N. D. Exp. Sta., Fargo, N. D.

Instr. chem., Univ. Mich., 1894–1902; instr. and asst. prof. chem., Univ. Ill., 1905–7; asst. prof. and prof. agrl. chem., Univ. Mo., 1907–18; present position, 1918—. Del. to Congress Applied Chem., N. Y., 1912. Pres. Am. Assoc. Official Agrl. Chem., 1917–8. *b.* Three Rivers, Mich., Apr. 25, 1866; *s.* Geo. M. and Leshia E. (Fox) T.; reared in town; *m.* Grace Hall, Sept. 4, 1894; *c.* Hugh M., Eleanor, Vernon H., Neva, Marian. Ph.B., Univ. Mich., 1892; M.A., 1905; Ph.D., Univ. Ill., 1906; B.Pd., Mich. State Normal Coll., 1892; M.Ped., 1912. Sigma Xi; Phi Lambda Upsilon; Alpha Chi Sigma; Gamma Sigma Delta.

Troy, Hugh C., prof. dairying, State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Asst. dairying, Cornell Univ., 1897–1912; chem., N. Y. State Dept. Agr., 1898–1912; prof. dairying, 1912—; consulting chem., Dept. Agr., 1912—; dairy manufacturing specialist, U. S. Dept. Agr., Jul.–Oct. 1917. *b.* Spencer, N. Y., May 2, 1867; *s.* John and Elizabeth (McAllister) T.; reared on farm; *m.* Mary M. Wall, May 10, 1900; *c.* Mary, Elinor, Hugh, Francis, Edith. B.S.A., Cornell Univ., 1896.

Truax, Thomas Roy, asst. prof. for., Ia. State Coll., Ames, Ia.

b. Guthrie Co., Ia., Dec. 3, 1886; *s.* John Wesley and Clara (Tolbert) T.; reared on farm; *m.* Lena Thompson, June 10, 1914; *c.* Donald Thompson, Thomas LeRoy. B.S., Ia. State Coll., 1912. Delta Upsilon.

True, Alfred Charles, dir. States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Princ. high-sch., Essex, N. Y., 1873–4; instr. State Normal Sch., Westfield, Mass., 1875–82; instr. Wesleyan Univ., 1884–8; ed. Off. Exp. Stas., U. S. Dept. Agr., 1889–90; vice-dir., 1891–2; dir., 1893–1915; dir. States Relations Serv., 1915—. Dean Grad. Sch. Agr., Ohio State Univ., 1902; Univ. Ill., 1906; Cornell Univ., 1908; Ia. State Coll., 1910; Mich. Agr. Coll., 1912; Univ. Mo., 1914; Mass. Agr. Coll., 1916. Pres. Am. Assoc. Agrl. Colls. and Exp. Stas., 1914, bibliographer, 25 yrs. Del. representing U. S. at General Assembly of Inter. Inst. of Agr., Rome, Italy, 1913. *Ed.*-in-chief, Experiment Station Record; Experiment Station Work. *b.* Middletown, Conn., June 5, 1853; *s.* Chas. Kittredge and Elizabeth Bassett (Hyde) T.; *m.* Emma Fortune, Nov. 23, 1875; *c.* Elizabeth Fortune, Henry Hyde. A.B., Wesleyan

Univ., Conn., 1873; A.M., 1876; Ph.D., Erskine Coll., S. C., 1886; Sc.D., Wesleyan Univ., 1906.

True, Frank Lathrop, co. agrl. agt., Alpena, Mich.

Dairy farmer, Armada, Mich., 1911–8. *b.* Armada, Mich., Jan. 5, 1889; *s.* Geo. A. and Ida (Smith) T.; reared on farm. B.S., Mich. Agr. Coll., 1911. Alpha Zeta.

True, Gordon Haines, prof. an. husb., Univ. Calif., Berkeley, Calif.

Instr. dairying, Mich. Agr. Coll., 1894–9; prof. an. husb., Univ. Ariz., 1899–1903; prof. agr. and an. husb., Univ. Nev., 1903–13; dir. Nev. Exp. Sta., 1912–3; present position, 1918—. Fellow A. A. A. S. Mem. Nev. State Bd. Agr., 1911–3; state quarantine officer for Nev., 1913. Dir. Draft Horse Breeders' Assoc., Sheep and Wool Growers' Assoc., Shorthorn Breeders' Assoc., Inter. Live-Stock Show Corporation, Pacific Coast Hereford Cattle Breeders' Assoc. Chm. Live-Stock Comn., Fed. Food Administration for Calif. *b.* Baraboo, Wis., Dec. 14, 1868; *s.* John M. and Mary Annie (Beede) T.; reared on farm; *m.* Elizabeth Spayd Stubbs, Oct. 3, 1904; *c.* Elizabeth, Gordon H. Jr., Eunice Miriam. B.S., Univ. Wis., 1894. Delta Upsilon.

Trueman, John Main, prof. agr. and farm supt., N. S. Agr. Coll., Truro, N. S.

Instr. dairying, S. D. State Coll., 1895–7; farm manag., Thorndale, Pa., 1897–1900; Waverly, 1900–3; asst. an. husb. and dairying, Cornell Univ., 1903–5; asst. dairying, Univ. Ill., 1905–7; prof. dairying ind., Conn. Agr. Coll., 1907–13; present position, 1913—. *b.* Point de Bute, N. B.; *s.* Howard and Jean (Main) T.; reared on farm; *m.* Clara Louise Huff, Apr. 26, 1896; *c.* Howard L., Thompson, Albert W., Louise V. D.

Truesdell, Leon Edgar, field asst. in rural organization, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

b. Rowe, Mass., Mar. 15, 1880; *s.* Clarence and Linna Viola (Streeter) T.; reared in village; *m.* Constance Ethel Cole, June 19, 1916; *c.* Constance Emma. A.B., Brown Univ., 1907; A.M., 1907. Phi Beta Kappa.

Truog, Emil, assoc. prof. soils, Univ. Wis., Madison, Wis.

Asst. soils, Univ. Wis., 1909–12; instr., 1912–6; asst. prof., 1916–7; assoc. prof., 1917—. *b.* Independence, Wis., Mar. 6, 1884; *s.* Thomas and Magdalena (Keller) T.; reared on farm. B.S.A., Univ. Wis., 1909; M.S., 1912. Sigma Xi; Alpha Zeta; Phi Lambda Upsilon; Gamma Alpha.

Tucker, Gilbert Milligan, ed. and auth., 304 State St., Albany, N. Y.

Mem. N. Y. State Food Invest. Comn., 1911; pres. N. Y. State Agrl. Soc., 1905–6. Traveled in Europe, N. Africa, W. Indies. *Auth.:* Our Common Speech, 1895; American Agricultural Periodicals, 1909; A Layman's Apology, 1913. *Asst. ed.*, Country Gentleman, 1877–84; manag. ed., 1884–97; ed.-in-chief, 1897–1911. *b.* Albany, N. Y., Aug. 26, 1847; *s.* Luther and Margaret Lucinda (Smith) T.; reared in city; *m.* Sara Edwards Miller, June 7, 1877; *c.* Margaret Cleveland, Gilbert M. Jr. A.B., Williams Coll., 1867; A.M., 1870. Phi Beta Kappa.

Tucker, Gilbert Milligan Jr., asst., N. Y. State Food and Food Supply Comn., Albany, N. Y.

On staff Country Gentleman, 1901–11. Farmer. *b.* Albany, N. Y., Nov. 3, 1880; *s.* Gilbert Milligan and Sara Edwards (Miller) T.; reared in city. B.S.A., Cornell Univ., 1901. Alpha Zeta.

Tufts, Warren Porter, asst. prof. pom., Univ. Calif., Davis, Calif.

Instr. hort., Ore. Agr. Coll., 1914–5; instr. pom., Univ. Calif., 1915–7; asst. prof., 1917—. *b.* Cedarville, O., Jan. 8, 1890 ; *s.* Geo. L. and Mary Belle (Porter) T.; reared on farm and in city; *m.* Matilda Francis Humason, June 8, 1915; *c.* Warren Geo. B.S., Univ. Calif., 1912; M.S., Ore. Agr. Coll., 1914.

Tuggle, Floyd S., farmer, Gallatin, Mo.

Mem. Mo. Legislature; chm. State Council Defense; co. food administrator. *b.* Caldwell, Mo., Feb. 17, 1885; *s.* James and Victoria (Smith) T.; reared on farm; *m.* Grace Anderson, Mar. 4, 1911; 2d, Helen Weiser, Jul. 30, 1916; *c.* James A. A.B., Univ. Mo., 1906.

Tunison, Lula, asst. state agt. in chg. girls' clubs, Miss. A.&M. Coll., Agricultural College, Miss.

Teach. English, high-sch., Lumberton, Miss., 5 yrs.; Mt. Olive, 1 yr.; Courtland,

2 yrs.; co. dem. work, 4 yrs. *b.* Athens, Ga., May 31, 1885; *d.* Geo. H. and Zipporah (Patrick) T.; reared in city and on farm. A.B., Ind. Inst. and Coll., Columbus, Miss., 1906.

Turner, Louise Gifford, asst. prof. home econ., Univ. Tenn., Knoxville, Tenn.
Head dom. sci. dept., high-sch., Knoxville, Tenn., 1910–1; instr. home econ., Univ. Tenn., 1911–4; asst. prof., 1914—. *b.* Binghamton, N. Y., Dec. 29, 1886; *s.* Henry Fearn and Mary E. (Steere) T.; reared in city. B.A., Univ. Tenn., 1908; M.A., 1910.

Turner, Ray A., teach. agr., Hillsdale, Mich.
Asst. instr. dairy lab., Mich. Agr. Coll., 1909–10; instr. agr., high-sch., Hillsdale, 1910—; summer sch., Mich. State Normal, 1914; asst. state club leader, Mich., 1918—. Pres. Mich. Assoc. for Adv. Agrl. Teaching. *b.* Chase, Mich., Oct. 5, 1884; *s.* Frank E. and Elizabeth (Arndt) T.; reared in town; *m.* Irene A. Rorison, Aug. 21, 1912; *c.* Phillip Rorison. B.S., Mich. Agr. Coll., 1909.

Tuttle, Edward Mowbray, asst. prof. rural educ., State Coll. Agr., Cornell Univ., Ithaca, N. Y.
Asst. rural educ., Cornell Univ., 1911–2; instr., 1912–4; asst. prof., 1914—. *Ed.*, Cornell Rural School Leaflet. *b.* New York City, Mar. 23, 1889; *s.* Ezra Armstrong and Anna Eudora (Mowbray) T.; reared in city and on farm. B.S.A., Cornell Univ., 1911; A.B., 1913. U. S. Army, 1918—.

Twitchell, George M., farmer, Auburn, Me.
Inst. lect., 1883—. Lect. and overseer Me. State Grange. *Assoc. ed.*, Maine Farmer, 1873–97; ed. and manag., 1897–1904. *b.* Bethel, Me., Sept. 17, 1847; *s.* Almon and Phebe M. (Buxton) T.; reared in country; *m.* Florence Allen, Jan. 26, 1870.

U

Umberger, Harry John Charles, co. agt. leader, Kans. State Agr. Coll., Manhattan, Kans.
With U. S. Dept. Agr., 1906–11; dept. agron., Kans. State Agr. Coll., 1911–2; farmer, 1912–4; dem. superv. and asst. co. agt. leader, Kans. State Agr. Coll., 1915–7; co. agt. leader, 1917—. *b.* Hymer, Kans., Sept. 27, 1881; *s.* M.D. and Sarah E. (Hartert) U.; reared on farm; *m.* R. M. Kolck, June 12, 1909; *c.* Grace K., David J., Pauline E. B.S., Kans. State Agr. Coll., 1905.

Upson, Fred Wilbert, prof. and head dept. chem., Univ. Neb., and chem. Exp. Sta., Lincoln, Neb.
Instr. chem., Univ. Cincinnati, 1910–2; Univ. Chicago, 1912–3; present position, 1913—. *b.* Byron, Ill., Feb. 2, 1883; *s.* Richard E. and Mary W. (Johnston) U.; reared on farm and in city. B.Sc., Univ. Neb., 1907; M.A., 1908; Ph.D., Univ. Chicago, 1910. Sigma Xi; Gamma Alpha.

Urbahns, Theodore Dieterich, ent. asst. in chg. U. S. Dept. Agr. Ent. Lab., Berkeley, Calif.
With U. S. Bur. Ent., invest., Kans., Okla., Tex., 1908–9; chg. insectary and field work ent., Univ. Minn., 1909–11; Bur. Ent., 1911—. Fellow A. A. A. S. *b.* Minden, Ia., Aug. 1, 1880; *s.* Behrent Henry and Kathrine (Ivers) U.; reared in small town; *m.* Maric Estelle Daft, Jan. 2, 1913; *c.* Mary Barbara. B.S., Colo. Agr. Coll., 1908.

V

Vaile, Roland Snow, asst. prof. orchard manag., Univ. Calif., Berkeley, Calif.
Agrst., Persian Relief Exped., Teheran, Persia, 1918—. *b.* Nordhoff, Calif., Nov. 23, 1889; *s.* Chas. Selden and Octavia (Barrows) V.; reared in town; *m.* Marjorie Maynard, Mar. 1912; *c.* David Selden. B.A., Pomona Coll., 1910. Phi Beta Kappa.

Valgren, Victor Nelson, invest. in agrl. insurance, Bur. Markets, U. S. Dept. Agr., Washington, D. C.
Supt. city schs., Groton, S. D., 1905–8; instr. econ., Univ. Neb., 1910–1; instr. econ., Univ. Minn., 1912–3; asst. prof. econ., Univ. Kans., 1913–5; present position, 1915—. *b.* Sweden, June 30, 1876 (naturalized as minor); *s.* H. P. and Johanna (Swenson) V.; reared on farm; *m.* Margaret M. St. Clair, 1908. B.S., Gustavus Adolphus Coll., 1905; M.A., Univ. Minn., 1909.

Vandervort, H. S., asst. state agt., W. Va. Univ., Morgantown, W. Va.
Agt. Wood Co., W. Va., 1912–5. *b.*

Morgantown, W. Va., Jul. 23, 1886; *s.* Virgil and Belle (Swisher) V.; reared on farm; *m.* Lucille Moore, Nov. 26, 1912. B.S. Agr., W. Va. Univ., 1911. Kappa Alpha.

Van Dyke, Edwin Cooper, prof. ent., Univ. Calif., Berkeley, Calif.
b. Oakland, Calif., Apr. 7, 1869; *s.* Walter and Rowena (Cooper) V.; reared in city; *m.* Mary Annie Ames, June 7, 1915. B.S., Univ. Calif., 1893; M. D., Cooper Med. Coll., San Francisco, 1895. Sigma Xi; Beta Theta Pi; Phi Rho Sigma; Beta Kappa Alpha.

Van Es, Leumis, head dept. an. path. and hygiene, Univ. Neb., Lincoln, Neb.
Dem. normal histology and bact., Univ. Ala., 1898–1902; prof. vet. sci. and vet. Exp. Sta. and dir. State Serum Inst., N. D. Agr. Coll, 1902–18; present position, 1918—. Consulting vet., N.D. Live-Stock Sanitary Bd. Del. from U. S. to Inter. Vet. Congress, The Hague, 1909. *Ed.*, dept. vet. and rural hygiene, Dakota Farmer. *b.* Melissant, Netherlands, Oct. 3, 1868 (naturalized 1899); *s.* Jacob and Maatje (Zaayer) V.; reared on farm; *m.* A. E. Wilson, Jul. 11, 1894; *c.* Jacob, Maatje, Marie. V.S., Ont. Vet. Coll., 1893; M.D., Univ. Ala., 1908.

Van Fleet, Walter, hort. and physiologist, U. S. Dept. Agr., Washington, D. C.
Assoc. ed., Rural New-Yorker, 1899–1909; present position, 1910—. Traveled in S. America and W. Indies. *Auth.:* Bird Portraits, 1888. *b.* Piermont, N. Y., June 18, 1857; *s.* Solomon and Elvira (DuBois) V.; reared on farm; *m.* Sarah C. Heilman, Aug. 7, 1883. M. D., Hahnemann Med. Coll., Philadelphia, 1880.

Van Horn, Archie Glenn, co. agrl. agt., Kansas City, Kans.
Stock-farmer, Sabetha, Kans., 1916–7. *b.* Nickerson, Kans., Nov. 10, 1890; *s.* W. B. and Wilda F. (Weybright) V.; reared on farm. B.S.A., Kans. State Agr. Coll., 1916. Gamma Sigma Delta.

Van Kirk, Lloyd Howard, asst. in market business practice, Bur. Markets, U. S. Dept. Agr., Washington, D. C.
Traveled in Europe, 1912, 1914. *b.* Forksville, Pa., May 9, 1886; *s.* James L. and Susie A. (Miller) V.; reared in town. A.B., George Washington Univ., 1916.

Vann, Theodore W., co. agrl. agt., Elmira, N. Y.
Farm supt., Amsterdam, N. Y., 1915–6. *b.* Willow Creek, N. Y., Feb. 22, 1890; *s.* Geo. Howe and Mary Elizabeth (Ward) V.; reared on farm. B.S., Cornell Univ., 1915.

Van Norman, Hubert Everett, prof. dairy manag., vice-dir. Exp. Sta., dean Univ. Farm Sch., Univ. Calif., Davis, Calif.
Asst. in butter-making, Mich. Agr. Coll., 1894–5; farm supt. and instr. dairying, Purdue Univ., 1898–1902; chief dairy dept., 1902–5; prof. dairy husb., Penn. State Coll., 1905–13; present position, 1913—. Sec. Ind. Dairy Assoc., 1898–1905; pres. Penn. Dairy Union, 1906, sec., 1907–13; sec. Agrl. Fed. of Pa., 1912–3; vice-pres. Nat. Dairy Show, 1907–8, sec. and manag., 1909–10, pres. and dir., 1911—. *Auth.:* First Lessons in Dairying, 1908. *b.* Tilsonburg, Ont., Jan. 30, 1872 (naturalized 1905); *s.* Geo. F. and Julia Bright (Everett) V.; reared on farm; *m.* Maud R. Carrigan, Aug. 28, 1915. B.S., Mich. Agr. Coll., 1897. Alpha Zeta.

Van Rensselaer, Martha, prof. home econ., State Coll. Agr., Cornell Univ., Ithaca, N. Y.
Teach. public schs., 1884–94; sch. comnr. Cattaraugus Co., N. Y., 1894–1900; instr. teach. insts., 1896–1904; sec. state summer sch., 1896–1900; ext. worker, Cornell Univ., 1900—; prof. home econ. and head of dept., 1912—. Mem. staff U. S. Food Administration, Mar. 1918—. Pres. Am. Home Econ. Assoc., 1914–6. *Auth.:* (with Rose and Canon) Manual of Home-Making, 1918. *Ed.*, Reading Course for the Farm Home. *b.* Randolph, N. Y.; *d.* Henry Killian and Arvilla A. (Owen) V.; reared in village. Grad. Chamberlain Inst., Randolph, N. Y., 1883; A.B., Cornell Univ., 1909.

Van Scoik, Roy Harrison, co. agrl. agt., Crookston, Minn.
Princ. and instr. agr. and biol., Sch. Agr. and Home-Making, Kings Ferry, N. Y., 1915–7; instr. agr., high-sch., Sleepy Eye, Minn., 1917–8; agt. Polk Co., 1918—. *b.* Aulne, Kans., Jul. 28, 1888; *s.* Aaron and Aurelia (Gard) V.; reared on farm; *m.* Belle Armida Seymour, Jul. 26, 1916. B.S.A., Kans. State Agr. Coll., 1914; grad. work, Cornell Univ., 1914–5. Theta Alpha.

Van Slyke, Lucius Lincoln, chem., N. Y. Agr. Exp. Sta., Geneva, N. Y.

Instr. chem., Univ. Mich., 1882–5; prof. chem., Oahu Coll., Honolulu and govt. chem., 1885–8; lect. chem., Univ. Mich., 1888–9; present position, 1890—. Fellow A. A. A. S. Pres. N. Y. State Dairymen's Assoc., 1897; pres. Assoc. Official Agrl. Chem., 1900. *Auth.:* Modern Methods of Testing Milk Products, 1906; (with Publow) The Science and Practice of Cheese-Making, 1909; Fertilizers and Crops, 1912. *b.* Centerville, N. Y., Jan. 6, 1859; *s.* Wm. J. and Catherine (Keller) V.; reared in village; *m.* Lucy M. Dexter, June 15, 1882; 2d, Julia Upson Hanford, Apr. 5, 1888; *c.* Donald Dexter, Lawrence Prescott. A.B., Univ. Mich., 1879; A.M., 1881; Ph.D., 1882. Phi Beta Kappa; Beta Theta Pi.

Van Wagenen, Jared Jr., farmer, Lawyersville, N. Y.

Lect. on agr. and country life. *b.* Lawyersville, N. Y., May 14, 1871; *s.* Jared and Loraine (McNeill) V.; reared on farm; *m.* Magdalena Eliza Lamont, Dec. 31, 1896; *c.* Sarah Lamont, Loraine McNeill, Jared III, Margaret Augusta. B.S.A., Cornell Univ., 1891; M.S.A., 1897.

Varney, Kenna L., distr. agrl. agt., Pikeville, Ky.

Teach. rural schs., 14 yrs.; agrl. agt., Trigg Co., Ky.; distr. agt., Eastern Ky., 1918—. *b.* Pike Co., Ky., Apr. 24, 1878; *s.* Asa H. and Nancy (West) V.; reared on farm; *m.* Lillie Murphy, Apr. 28, 1897; *c.* Grace, Maude, Sidney, Clyde, Glenn, Claude, Champ Clark.

Vaughan, Henry William, prof. an. husb., Ia. State Coll., Ames, Ia.

Instr. an. husb., Ohio State Univ., 1909–10; asst. prof., 1910–2; asst. prof. an. husb., Ia. State Coll., 1913–4; assoc. prof., 1914–7; prof., 1917—. *Auth.:* Types and Market Classes of Live-Stock, 1915. *b.* Cardington, O., Feb. 8, 1887; *s.* Edgar J. and Mary Lord (Mooney) V.; reared in country town; *m.* Nellie Page, Sept. 8, 1915. B.S.A., Ohio State Univ., 1908; M.S.A., 1909. Sigma Chi; Alpha Zeta.

Vaughan, Richard E., asst. prof. plant path., Univ. Wis., Madison, Wis.

Asst. hort., Univ. Vt., 1907–8; instr. hort. and agron., Mt. Hermon Sch., Mass., 1909–10; dir. dept. agr., 1910–1; asst. plant path., Univ. Wis., 1911–4; instr., 1915; asst. prof., 1916—. *b.* Woodstock, Vt., Mar. 27, 1884; *s.* Geo. H. and Frances C. (Montague) V.; reared on farm; *m.* Eloise A. Samson, Sept. 15, 1914; *c.* James Samson. B.S.A., Univ. Vt., 1907; M.S., Univ. Wis., 1912.

Vaughn, Erle Cleveland, assoc. prof. ent. and bot., Univ. Ky., Lexington, Ky.

b. Shelby Co., Ky., Dec. 6, 1882; *s.* Darnell D. and Ambie (Gray) V.; reared on farm; *m.* Mary W. Hays, June 20, 1907. A.B., Univ. Ky., 1904.

Vaughn, John Early, co. agrl. agt., Tylertown, Miss.

Teach. rural schs., 1911–3. *b.* Scooba, Miss., May 18, 1889; *s.* Joseph Warren and Luvenia Jane (Taylor) V.; reared on farm; *m.* Minnie Parnell, Dec. 26, 1917. B.S., Miss. A.&M. Coll., 1917.

Veihmeyer, Frank, asst. prof. irrig. invests., Univ. Calif., Berkeley, Calif.

Sci. asst., Bur. Plant Ind., 1910–3; asst. irrig. engin., U. S. Dept. Agr., 1913–7; irrig. engin., 1917–8; present position, 1918—. *b.* Washington, D. C., Dec. 25, 1886; *s.* J. Oliver and Nellie C. (Leavy) V.; reared in city; *m.* Frances L. Kelly, Nov. 20, 1913; *c.* Kathryn. B.S., George Washington Univ., 1912; C.E., 1913. Sigma Phi Epsilon.

Vequist, David G., distr. agrl. agt., St. Paul, Neb.

Instr. high-sch., Glenwood, Ia., 1915–6; Fairfield, Neb., 1916–7; Mondamin, Ia., 1917–8. *b.* Turner, Neb., June 30, 1889; *s.* Carl John and Betty (Johnson) V.; reared on farm; *m.* Augusta Papenhagen, Feb. 14, 1914; *c.* Woodrow W. B.Sc., Univ. Neb., 1915.

Vetter, Clarence W., co. agrl. agt., Holton, Kans. (Now in U. S. Army.)

Instr. agr. and manual training, high-sch., Clay Co., Kans., 1917–8. Pres. Clay Center Farm and Home Inst., 1918. *b.* Sterling, Ill., Apr. 16, 1891; *s.* Wm. and Helena (Peter) V.; reared in town and on farm. B.S., Ia. State Coll., 1917. Phi Kappa Phi; Gamma Sigma Delta.

Vickery, Roy Albion, ent. asst., U. S. Dept. Agr., San Antonio, Tex.

b. Mora, Minn., Mar. 15, 1883; *s.*

Thos. B. and Hattie L. (Pomeroy) V.; reared in town. A.B., Univ. Minn., 1906; A.M., 1907. Sigma Xi.

Vinall, Harry Nelson, agron., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

b. near Nevada, Ia., Jan. 31, 1880; *s.* Geo. W. and Delina (Neal) V.; reared on farm; *m.* Mary Agnes Austin, Oct. 31, 1912. B.S., Kans. State Agr. Coll., 1903; M.S.A., Cornell Univ., 1912. Sigma Xi; Phi Kappa Phi.

Vincent, Edgar La Verne, farmer, 22 Ayers St., Binghamton, N. Y.

Teach. N. Y. public schs., 5 yrs. Bd. Supervisors, Broome Co., 5 yrs.; mem. N. Y. State Assembly, 2 yrs. *Ed.* Olean Times, Waverly Advocate. *b.* Persia, N. Y., Dec. 14, 1851; *s.* Hiram and Wealthy C. (Blakeley) V.; reared on farm; *m.* Jennie S. Fuller, Dec. 30, 1880; *c.* Edward F., Ralph M.

Vining, Keats Kendall, co. agrl. agt., Petoskey, Mich.

Teach. agr., high-sch., Fremont, Mich., 1913–8. *b.* Lakeview, Mich., Jul. 15, 1889; *s.* Cary W. and Mary (Kendall) V.; reared in town; *m.* Vesta Edgerly, Aug. 11, 1914; *c.* Keats K. Jr. B.S., Mich. Agr. Coll., 1913.

Vinson, Albert Earl, prof. agrl. chem., Univ. Ariz., Tucson, Ariz.

Instr. agrl. chem., Ohio State Univ., 1897–1902; present position, 1905—. Fellow A. A. A. S. *b.* Dayton, O., Oct. 30, 1873; *s.* Samuel H. and Mary (Mull) V.; reared in city; *m.* Louisa M. Albert, June 17, 1897. B.S., Ohio State Univ., 1901; Ph.D., Univ. Goettingen, Germany, 1904. Sigma Xi; Phi Kappa Phi.

Vivian, Alfred, dean Coll. Agr., Ohio State Univ., Columbus, O.

Instr. pharmacognosy, Univ. Wis., 1894–5; asst. agrl. chem., 1895–7; instr. and asst. chem. Exp. Sta., 1897–1902; assoc. prof. agrl. chem., Ohio State Univ., 1902–5; prof., 1905—; dean Coll. Agr., 1915—. *Auth.:* First Principles of Soil Fertility, 1908; Studies in Chemistry and Soils, 1918. *b.* Mineral Point, Wis., Mar. 14, 1867; *s.* John H. and Amelia (Stansmore) V.; reared in country; *m.* Frances Holder Chandler, Apr. 21, 1898. Ph.G., Univ. Wis., 1894.

Vogt, Paul L., supt. dept. of rural work, Bd. Home Missions and Church Ext., Methodist Episcopal Church, 1701 Arch St., Philadelphia, Pa.

Special agt., U. S. Bur. Labor and Corporations, 1907–9; asst. prof. econ., Wash. State Coll., 1909–11; prof. sociol., Miami Univ., 1911–5; prof. and head dept. rural econ., Ohio State Univ., 1915–7; present position, 1917—. *Auth.:* Sugar Refining Industry, United States, 1908; Introduction to Rural Sociology, 1917. *b.* Upper Sandusky, O., May 28, 1878; *s.* Wm. A. and Sarah J. (Ewart) V.; reared on farm; *m.* Carolyn A. Pennell, Aug. 27, 1905; *c.* Beatrice A., Wm. L. A.B., Butler Coll., 1903; Univ. Chicago, 1903; Ph.D., Univ. Penn., 1907. Delta Tau Delta.

Von Tungeln, George Henry, assoc. prof. rural sociol., Ia. State Coll., and chief rural sociol. sect., Ia. Exp. Sta., Ames, Ia.

Teach. rural schs., Ill., 2 yrs; acting co. supt. schs., Pope Co., Ill., summer 1911; instr. English, Mich. Agr. Coll., 1910–1; asst. prof. rural sociol., Ia. State Coll., 1913–4; assoc. prof., 1914—. Mem. Com. Social Welfare, Ia. State Conference of Social Work. *Joint auth.:* Persistent Public Problems: Unemployment, Social and Industrial Righteousness, 1916. *b.* Golconda, Ill., Jul. 30, 1883; *s.* Gerhardt and Cathrine (Manson) V.; reared on farm; *m.* Maude Mildred Drew, Sept. 2, 1914. Ph.B., Cent. Wesleyan Coll., Warrentown, Mo., 1909; A.M., Northwestern Univ., 1910; Robert Treat Paine fellow, Harvard Univ., 1911–3. Gamma Sigma Delta.

Vorhies, Charles Taylor, prof. ent. and ent. Exp. Sta., Univ. Ariz., Tucson, Ariz.

Asst. zool., Univ. Wis., 1904–8; prof. zool., Univ. Utah, 1908–15; asst. prof. biol., Univ. Ariz., 1915–6; prof. zool., 1916–8; prof. ent., 1918—. *b.* Mt. Pleasant, Ia., Sept. 7, 1879; *s.* Daniel J. and Rachel E. (Taylor) V.; reared on farm; *m.* Mary Isabel Tuttle, Sept. 7, 1901; *c.* Chas. Tuttle. B.S., Ia. Wesleyan Coll., 1902; Ph.D., Univ. Wis., 1908. Sigma Xi; Phi Delta Theta.

Vrooman, Carl Schurz, assistant secretary of agriculture, U. S. Dept. Agr., Washington, D. C.

Regent Kans. State Agr. Coll., 1898–1900. Farming in Ill. and Ia. *Auth.:*

American Railway Problems, 1910; The Lure and Lore of Travel, 1914; Grain Farming in the Middle West, 1916. *b.* Macon, Mo., Oct. 25, 1872; *s.* Hiram Perkins and Sarah (Buffington) V.; reared in village and city; *m.* Julia Green Scott, Dec. 28, 1896. Student Harvard Univ., 3 yrs.; study of econ., agr. and politics in Europe, 4 yrs. Pi Eta.

W

Wade, Theo, invest. in coop. organization, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Mem. Mich. Legislature, 1901–3. *b.* Ganges, Mich., Nov. 14, 1868; *s.* John P. and Sarah S. (Barnes) W.; reared on farm; *m.* Alice M. Chamberlain, June 4, 1890; *c.* Wave H., Don D., Theo H, Fred C., Glenn Chamberlain, Robt. E. LL.B., Univ. Mich., 1888.

Wadsworth, James Wolcott Jr., farmer, U. S. senator, Mt. Morris, N. Y.

Farmer, Mt. Morris, N. Y., 1899—; manag. ranch, Paloduro, Tex., 1911—. Mem. N. Y. Assembly, 1905–10; speaker, 1906–10; U. S. Senator, 1915—. *b.* Geneseo, N. Y., Aug. 12, 1877; *s.* James W. and Louisa (Travers) W.; *m.* Alice Hay, Sept. 30, 1902. B.A., Yale Univ., 1898.

Waid, Clarence William, ext. specialist hort., Mich. Agr. Coll., E. Lansing, Mich.

Asst. hort., N. H. A.&M. Coll., 1899–1900; asst. hort., Ohio Exp. Sta., 1900–7; fruit farmer, 1908–11; hort., Ohio State Bd. Agr., 1912–3; present position, 1914—. Vice-pres. O. Hort. Soc.; sec. O. For. Soc.; pres. and dir. Veg. Growers' Assoc. of Am.; sec. Mich. Potato Growers' Assoc.; sec. Mich. Veg. Growers' Assoc. *b.* Fulton Co., O., May 2, 1874; *s.* Wm. and Mariah (Kipp) W.; reared on farm; *m.* Iva Hughes, Sept. 28, 1902; *c.* Wm. Cyrus, Margaret Emma, Robt. Clarence. B.S., Ohio State Univ., 1898. Alpha Zeta.

Waite, Roy Harrison, poultry invest., Md. Exp. Sta., College Park, Md.

Foreman poultry plant, Mich. Agr. Coll., 1907–9; asst. biol., R. I. Exp. Sta., 1909–10; present position, 1910—. *b.* Burnside, Mich., June 7, 1885; *s.* Wm. Henry and Sarah Elizabeth (King) W.; reared on farm; *m.* Mary Camp Baker, June 28, 1911; *c.* Alan Knowlton. B.S., Mich. Agr. Coll., 1907.

Waldron, Clare Bailey, dean of agr., N. D. Agr. Coll., Agricultural College, N. D.

Instr. bot., Mich. Agr. Coll., 1888–90; prof. hort., N. D. Agr. Coll., 1890—; dean agr., 1915—. Fellow A. A. A. S. Pres. Tri-State Grain and Stock Growers' Assoc. Mem. jury awards, St. Louis Expos.; chm. jury awards, Portland Expos. *b.* Ravenna, O., Dec. 6, 1865; *s.* David S. and Louise (Root) W.; reared on farm; *m.* Lois Hooper, Dec. 24, 1891; *c.* Clarence, Max, Eloise. B.S., Mich. Agr. Coll., 1887. Alpha Gamma Rho; Alpha Zeta.

Waldron, James A., ext. specialist in dairying, Mich. Agr. Coll., E. Lansing, Mich.

Teach. agr., Carlton high-sch., Mich., 2 yrs. *b.* Tecumseh, Mich., June 12, 1887; *s.* C. A. and Josephine (Colvin) W.; reared on farm. B.S., Mich. Agr. Coll., 1910. Alpha Zeta.

Waldron, Lawrence Root, plant-breeder, N. D. Exp. Sta., Agricultural College, N. D.

Asst. bot., N. D. Agr. Coll., 1900–5; supt. Exp. Substa., 1905–16; present position, 1916—. Fellow A. A. A. S. *b.* Ionia, Mich., Oct. 20, 1875; *s.* D. S. and L. A. (Root) W.; reared on farm; *m.* Emma Grofenstein, 1903; *c.* Heber G., Frederick R., Chas. B., Lois A. B.S., N. D. Agr. Coll., 1899; M.A., Univ. Mich., 1902.

Walker, Lee Roy, co. agrl. agt., Marquette, Mich.

Teach. rural schs., 1899–1900; princ. schs., Mecosta, Mich., 1904–7; supt. schs., Muskegan Heights, 1907–13; agt. Marquette Co., 1915—. *b.* Imlay City, Mich., Jan. 15, 1880; *s.* Lyman R. and Margaret (Bell) W.; reared on farm; *m.* Edna Blanche Wright, Aug. 23, 1906; *c.* Margaret Jane. B.S., Mich. Agr. Coll., 1915.

Walker, Seth Stetson, soil chem., La. Exp. Sta., Baton Rouge, La.

Asst. chem., Purdue Univ., 1909–10; asst. chem., Rubber Regenerating Co., 1910–2; asst. chem., Fla. Exp. Sta., 1912–5; assoc. chem., 1915–7; chem., Fla. Fruit Products Co., 1917–8; present position, 1918—. *b.* Orleans, Ind., Jan. 26, 1886; *s.* Edward Preston and Hannah

Frances (Grey) W.; reared in country town; *m.* Ethel May Hamlin, Sept. 28, 1910; *c.* Helen Mary. B.S., John B. Stetson Univ., 1907; B.S., Univ. Chicago, 1907; M.S., 1909. Phi Kappa Delta.

Wallace, Daniel Alden, ed. The Farmer, St. Paul, Minn.

Mem. Minn. Econ. and Efficiency Comn.; State Food Comn. *b.* Winterset, Ia., Dec. 23, 1878; *s.* Henry and Nannie (Cantwell) W.; reared in small town; *m.* Adele Snyder, June 6, 1902. B.S.A., Ia. State Coll., 1901. Phi Gamma Delta.

Wallace, Henry C., ed. Wallaces' Farmer, Des Moines, Ia.

Prof. dairying, Ia. State Coll., 1892–4; with Wallaces' Farmer, 1895—. Mem. U. S. Live-Stock Ind. Com., 1917; chm. Hog Ind. Com.; sec. Corn Belt Meat Producers' Assoc.; mem. Market Com., Am. Nat. Live-Stock Assoc. *b.* Rock Island, Ill., May 11, 1866; *s.* Henry and Nannie (Cantwell) W.; reared in town and on farm; *m.* Carrie May Brodhead, Nov. 24, 1887; *c.* Henry A., John B., Annabelle J., James W., Mary O., Ruth E. B.S., Ia. State Coll., 1891. Delta Tau Delta.

Wallace, Robert Clarence Edwin, assoc. prof. soils, Purdue Univ., LaFayette, Ind.

Asst. soils, Ohio Exp. Sta., 1906–12; present position, 1912—. *b.* Wooster, O., Feb. 5, 1875; *s.* Robt. Anderson and Sarah Ellen (Bracken) W.; reared on farm; *m.* Mabel Fellows, Oct. 28, 1908; *c.* Robt. Emerson. B.S.A., Ohio State Univ., 1906. Alpha Gamma Rho.

Walls, Edgar Perkins, co. agrl. agt., Easton, Md.

Asst. agron., Md. Exp. Sta., 1903–5; asst. prof. bot. and plant path., 1908–9; prof. hort., St. Lawrence Univ., 1909–10; instr. bot. and plant path., Ore. Agr. Coll., 1910–4; agt. Talbot Co., Md., 1914—; special agt., Bur. Chem., summers 1907–9. *b.* Barclay, Md., Sept. 3, 1882; *s.* David and Mary Augusta (Perkins) W.; reared on farm; *m.* Olive Shreve Kimberlin, Dec. 19, 1909. B.S., Md. Agr. Coll., 1903; M.S., 1905; student, Johns Hopkins Univ., 1905–6.

Walster, Harlow Leslie, asst. prof. soils, Univ. Wis., Madison, Wis.

Asst. soils, Univ. Wis., 1908–9; instr., 1909–12; asst. prof., 1913—. *Auth.:* (with Whitson) Soils and Soil Fertility, 1912. *b.* Troy, Wis., Apr. 20, 1883; *s.* Geo. Albert and Mary E. (Stelzman) W.; reared on farm. B.S.A., Univ. Wis., 1908; M.A., Harvard Univ., 1913; Ph.D., Univ. Chicago, 1918. Phi Beta Kappa; Alpha Zeta; Phi Lambda Upsilon; Gamma Alpha.

Walton, William Randolph, ent. in chg. cereal and forage insect invests., Bur. Ent., U. S. Dept. Agr., Washington, D. C.

Artist and specialist, Div. Econ. Zool., Harrisburg, Pa., 1906–10; ent. asst., Bur. Ent., 1910–6; present position, 1916—. Second vice-pres. Ent. Soc. Washington. *b.* Brooklyn, N. Y., Sept. 23, 1873; *s.* Walter and Susan (Macardell) W.; reared in city and country; *m.* Mary Agnes Becker, June 9, 1904; *c.* Walter F., Margaret, Wm. R. Jr., Henry V., John M.

Warber, Gustave Paul, specialist in marketing farm products, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

b. Minn., Aug. 17, 1886; *s.* Henry and Sophia (Vihstad) W.; reared on farm. B.S.A., Univ. Minn., 1913; M.A., 1914.

Warburton, Clyde William, agron. in chg. oat invests., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Sec. Am. Soc. Agron., 1915–7. *Auth.:* (with A. D. Wilson) Field Crops, 1912. *Ed.* book dept., Webb Pub. Co. and assoc. ed. The Farmer, 1911–2; ed. Journal Am. Soc. Agron., 1914—. *b.* Independence, Ia., Dec. 7, 1879; *s.* Wm. H. and Ellen (Irvine) W.; reared on farm; *m.* Anne E. Draper, Oct. 16, 1907. B.S.A., Ia. State Coll., 1902. Beta Theta Pi; Phi Kappa Phi.

Ward, Frances Vinton, asst. prof. foods and cookery, Univ. Minn., St. Paul, Minn.

Teach. sci. and home econ., high-sch., Middletown, Conn., 1906–15; instr. home econ., Cornell Univ., 1915–7; present position, 1917—. *b.* Mt. Vernon, N. Y., June 5, 1881; *d.* Frederick H. and Caroline (Hamlyne) Vinton; reared on farm; *m.* H. Lee Ward, 1917. B.A., Boston Univ., 1904. Gamma Phi Beta.

Ward, Roy Allen, distr. agrl. agt., Redmond, Ore

Biol. asst., Bur. Biol. Survey, 1911–7.

Sec. Cent. Ore. Pure Bred Live-Stock Assoc.; sec. Deschutes Valley Potato Growers' Assoc.; sec. Cent. Ore. Woolgrowers' Assoc. *b.* Chicago, Ill., June 17, 1892; *s.* Wm. Allen and Ida Belle (Muzzy) W.; reared in city and ranch; *m.* Alice Francis Gunning, Dec. 3, 1917. B.S., Colo. Agr. Coll., 1912.

Warner, Kenneth Fisher, asst. prof. an. husb. ext., Univ. Neb., Lincoln, Neb.

Instr. an. husb., Univ. Minn., 1912–5; present position, 1915—. Sec. Neb. Feeders' Assoc. *b.* Roca, Neb., Sept. 10, 1891; *s.* A. G. and Cora (Fisher) W.; reared in city and country. A.B., Univ. Neb., 1912; M.S., Univ. Minn., 1915. Alpha Zeta.

Warren, Alfred, co. agrl. agt., Ft. Pierce, Fla.

Agt. St. Lucie Co., Fla., 1916—. *b.* Zweisimmen, Switzerland, Sept. 25, 1877 (naturalized as minor); *s.* Christian and Sussanna Katherine (Stern) W.; reared on farm and in city; *m.* Ethel D. Wolfe, Dec. 27, 1911; *c.* Howard Alfred, Edna Louise. B.S., Damascus Acad., Damascus, O., 1901; A.B., Earlham Coll., Richmond, Ind., 1904; M.S., Coll. of Hawaii, Honolulu, 1914; M.S.E., Univ. Calif., 1916.

Warren, George Frederick, prof. farm manag., Cornell Univ., Ithaca, N. Y.

Princ. and supt. schs., Neb., 1897–1903; hort., N. J. Exp. Sta., 1905–6; asst. prof. agron., Cornell Univ., 1906–7; asst. prof. farm crops, 1907–9; prof. farm manag., 1910—. Farmer, 1906—. *Auth.:* Elements of Agriculture, 1909; Laboratory Exercises in Farm Management, 1910; Farm Management, 1913; (with Eckles) Dairy Farming, 1916. *b.* Harvard, Neb., Feb. 16, 1874; *s.* Geo. F. and Julia C. (Stanley) W.; reared on farm; *m.* Mary Whitson, June 21, 1906; *c.* Stanley Whitson, Jean, Richard, Geo. Frederick, Martha, Mary. B.Sc., Univ. Neb., 1897; B.S.A., Cornell Univ., 1903; M.S.A., 1904; Ph.D., 1905. Sigma Xi; Gamma Alpha.

Warsaw, W. W., asst. prof. soil tech. ext., Cornell Univ., Ithaca, N. Y.

Instr. soil tech., Cornell Univ., 1914–6; asst. prof., 1916—. Sec. N. Y. State Drainage Assoc. *b.* Riceville, Ia., May 7, 1890; *s.* Edward R. and Elizabeth (Mills) W.; reared on farm and in town; *m.* Alice M. Sperry, June 23, 1914; *c.* Eleanor Jean, Alice Katherine. B.S.A., Ia. State Coll., 1913. Alpha Zeta.

Washburn, Frederick Leonard, prof. econ. vert. zool., Univ. Minn., University Farm, St. Paul, Minn.

Instr. zool., Univ. Mich., 1887–8; prof. zool. and ent., Ore. Agr. Coll., and ent. Exp. Sta., 1888–95; prof. biol., Univ. Ore., 1895–1902; prof. ent. and state ent., Univ. Minn., 1902–18; prof. econ. vert. zool., 1918—. Fellow A. A. A. S. Traveled in Europe and W. Indies. *b.* Brookline, Mass., Apr. 12, 1860; *s.* Nehemiah and Martha (Parmlee) W.; reared on farm and in city; *m.* Frances Wilcox, Dec. 27, 1887; *c.* Martha, Alice. A.B., Harvard Univ., 1882; M.A., 1895.

Washburn, John Hosea, agrst., Chalfont, Pa.

Teach. common and high-schs., 1878–91; prof. chem., Storrs Agr. Sch., 1883–7; pres. and prof. agrl. chem., R. I. State Coll., 1889–92; dir. Nat. Farm Sch., Bucks Co., Pa., 1892–1917. *b.* Bridgewater, Mass., June 5, 1859; *s.* Hosea and Wealthy (Packard) W.; *m.* Martha W. Merrow, May 26, 1887. B.S., Mass. Agr. Coll., 1878; A.M., Univ. Goettingen, 1887; Ph.D., 1889.

Washburn, Robert Mann, prof. dairy husb., Univ. Minn., University Farm, St. Paul, Minn.

Teach. an. and dairy husb., Baron de Hirsh Agr. Sch., 1902–4; asst. prof. dairy husb., Univ. Mo., 1904–5; state dairy and food comnr., Mo., 1905–8; prof. an. and dairy husb., Univ. Vt., 1908–11; present position, 1911—. *Auth.:* Productive Dairying, 1916. *b.* Monticello, Minn., Sept. 20, 1874; *s.* Edson Dean and Amelia (Wells) W.; reared on farm; *m.* Alice Wiltse, Aug. 1903; *c.* Robt. Carleton, Katherine, Winifred, Harriet. B.Agr., Univ. Minn., 1901; M.S.A., Univ. Mo., 1908. Alpha Zeta.

[Waters, H. J., p. 313.

Watrud, Hjalmar Oliver, co. agrl. agt., Decorah, Ia.

Farm manag. dem. for U. S. Dept. Agr. and Univ. Wis., 1914–7; farm labor specialist, U. S. Dept. Agr. and Univ. Wyo., 1917. *b.* near Blanchardville, Wis., Mar. 25, 1885; *s.* Martin J. and

Christina Augusta (Gilbertson) W.; reared on farm; *m.* Amelia Christina Wang, June 12, 1918. B.S.A., Univ. Wis., 1913; M.S., 1914.

Watson, Curry Wathan, junior ext. leader, Univ. Neb., Lincoln, Neb.

Ed. boys' and girls' club dept., Nebraska Teacher. *b.* Mauckport, Ind., Apr. 28, 1881; *s.* Bufford and Margaret L. (Miller) W.; reared on farm; *m.* Minnie Ellen Fried, Apr. 8, 1903; *c.* Margaret. A.B., Univ. Neb., 1917. Alpha Zeta.

Watson, Joseph Ralph, ent., Fla. Exp. Sta., Gainesville, Fla.

Asst. biol., Western Reserve Univ., 1899–1900; prof. nat. sci., Rochester Coll., Ind., 1902–5; prof. biol., Univ. N. Mex., 1907–11; present position, 1911—. *b.* Berea, O., Aug. 1, 1874; *s.* David K. and Urania Maria (Parker) W.; reared on farm; *m.* Elizabeth J. Prout, Aug. 28, 1902; *c.* Wilma Ruth, Faith, Muriel. B.Sc., Baldwin Univ., 1897; A.M., Western Reserve Univ., 1899. Phi Kappa Phi.

Watson, Lawrence Orr, path. adv., U. S. Dept. Agr., Florence, S. C.

Asst. chem., Clemson Agr. Coll., 1908–10; field path., S. C. Exp. Sta., 1911–4; asst. path., U. S. Dept. Agr., 1914–6; path. adv., 1916—. *b.* Ninety Six, S. C., Aug. 28, 1888; *s.* James Dorsey and Virginia V. (Campbell) W.; reared on farm and in town; *m.* Julia Drake, Nov. 11, 1914; *c.* Lawrence O. Jr. B.S., Clemson Agr. Coll., 1908.

Watts, Ralph L., dean and dir. Sch. Agr. and Exp. Sta., Penn. State Coll., State College, Pa.

Instr. bot. and hort., Tenn. Exp. Sta., 1890–9; lect. farmers' insts., 1899–1908; commercial hort., Johnstown, Pa., 1900–8; prof. hort., Penn. State Coll., 1908–12; dean and dir. Sch. Agr. and Exp. Sta., 1912—. Junior pres. Veg. Growers' Assoc. of Am. *Auth.:* Vegetable Gardening, 1913; The Vegetable Garden, 1915; Vegetable Forcing, 1917. *Assoc. ed.*, Nat. Stockman and Farmer. *b.* Lumber City, Pa., June 5, 1869; *s.* Martin Overholser and Marian Elizabeth (Hoyt) W.; reared on farm; *m.* Hattie Searle, Jan. 1, 1895; *c.* Gilbert Searle, Curtis MacClure, Grace Elizabeth. B.S., Penn. State Coll., 1890; M.S., 1899; D.Agr., 1916. Sigma Pi.

Waugh, Frank Albert, head div. hort. and prof. lands. gard., Mass. Agr. Coll., Amherst, Mass.

Okla. A.&M. Coll., 1892–5; Univ. Vt., 1895–1902; Mass. Agr. Coll., 1902—. Capt. Sanitary Corps, Nat. Army, 1918—. *Auth.:* Landscape Gardening, 1898; Plums and Plum Culture, 1899; Fruit Marketing, 1900; Systematic Pomology, 1903; Dwarf Fruit Trees, 1907; American Apple Orchard, 1908; The Landscape Beautiful, 1910; Kemp's Landscape Gardening, 1910; Beginner's Guide to Fruit Growing, 1912; American Peach Orchard, 1913; Rural Improvement, 1914; The Natural Style in Landscape Gardening, 1917; Outdoor Theaters, 1917. *b.* Sheboygan Falls, Wis., Jul. 8, 1869; *s.* Albert F. and Lana (Biehler) W.; reared on farm; *m.* Alice Vail, 1893; *c.* Dan F., Dorothy, Frederick V., Esther, Albert F., Sidney B. B.Sc., Kans. State Agr. Coll., 1891; M.Sc., 1893. Kappa Sigma.

Wayland, John Walter, prof. hist. and social sci., State Normal Sch., Harrisonburg, Va.

Prof. hist., Bridgewater Coll., 1896–1906; instr. hist., Univ. Va., 1906–9; present position, 1909—. Attention to rural sociol. *Auth.:* Paul the Herald of the Cross, 1901; The Twelve Apostles, 1905; Political Opinions of Thomas Jefferson, 1907; The German Element of the Shenandoah Valley, 1907; Sidney Lanier at Rockingham Springs, 1912; A History of Rockingham County, Va., 1912; How to Teach American History, 1914; History Stories for Primary Grades, 1918. *b.* Mt. Jackson, Va., Dec. 8, 1872; *s.* John Wesley and Anna (Kagey) W.; reared on farm; *m.* Mattie Virginia Fry, June 8, 1898; *c.* Francis, Walter. B.A., Bridgewater Coll., 1899; Ph.D., Univ. Va., 1907. Phi Beta Kappa; Delta Sigma Rho.

Weatherby, E. C., co. agrl. agt., Auburn, N. Y.

Sec. Tompkins Co. Farm Bur., 1915–7. *b.* Enfield, N. Y., Sept. 11, 1893; *s.* J. C. and Mary E. (Curry) W.; reared on farm; *m.* Winifred Hadley, Aug. 14, 1917. B.S., Cornell Univ., 1915. Alpha Gamma Rho.

Webb, Alan G., quarantine insp., Fed. Hort. Bd., Federal Bldg., Seattle, Wash.

b. Wellsboro, Pa., Dec. 5, 1888; *s.* C. W. and Mame (Hastings) W.; reared in

town; *m.* Carolyn Ely, Mar. 12, 1912; *c.* Jane Hastings. B.S., Penn. State Coll., 1914.

Webb, Heber Jarvis, co. agrl. agt., Sandy, Utah.

Asst. ent., Utah Agr. Coll., 1912–3; teach. agr., high-sch., Jordan, 1913–4. Traveled in Europe. *b.* St. George, Utah, Feb. 11, 1881; *s.* Wm. and Amelia (Jarvis) W.; reared on farm; *m.* Mabel Stephenson, Aug. 31, 1910; *c.* two. B.S., Utah Agr. Coll., 1912. Delta Theta Sigma.

Webb, Wesley, sec. State Bd. Agr., Dover, Del.

Prof. agr., Del. Coll., 1882–5; pres. State Coll. for Colored Students, Dover, 1894–9. Sec. Peninsula Hort. Soc., 1888—; vice-pres. Nat. Corn Growers' Assoc. for Del.; sec. State Grange of Del.; pres. Am. Assoc. Farmers' Inst. Workers, 1916–7, sec.-treas., 1917—. *Ed.*, Delaware Farm and Home, 1885–96. Farmer in Me. and Del. *b.* Montville, Me., June 3, 1851; *s.* Samuel Wesley and Mary (Choate) W.; reared on farm; *m.* Mary B. Webb, Oct. 26, 1876; 2d, Mary A. Crouch, Jan. 12, 1887; *c.* Carlisle Allen, Geo. Samuel, Henry Crouch. B.S., Univ. Me., 1875; M.S., 1883.

Webber, Herbert John, dean Grad. Sch. Trop. Agr. and dir. Citrus Exp. Sta., Univ. Calif., Riverside, Calif.

Asst. bot., Univ. Neb., 1889–90; asst. bot., Washington, Univ. 1890–2; asst. path. and physiology, U. S. Dept. Agr. 1892–7; physiologist in chg. plant-breeding lab., 1897–1907; prof. plant-breeding, Cornell Univ., 1907–13; acting dir. Coll. Agr., 1910–1; present position, 1913—. Fellow A. A. A. S., Am. Bot. Soc. Chm. plant sect., Am. Breeders' Assoc., 1906–10; pres. Calif. Avocado Assoc., 1916. Del. to Inter. Conference on Hybridization, London, 1899. *b.* Lawton, Mich., Dec. 27, 1865; *s.* John Milton and Rebecca Ann (Bradt) W.; reared on farm; *m.* Lucena Anna Hardin, Sept. 8, 1890; *c.* Eugene Frances, Feronia Ella, Herbert Earl, John Milton. B.Sc., Univ. Neb., 1889; M.A., 1900; Ph.D., Washington Univ., 1900; D.Agr., Univ. Neb., 1913. Sigma Xi; Alpha Zeta.

Weber, Clarence Raymond, co. agrl. agt., Tecumseh, Neb.

Instr. agr., high-sch., Tecumseh, Neb., 2 yrs.; princ., 1 yr. *b.* Tecumseh, Neb., May 11, 1890; *s.* Joseph M. and Mary J. (McCoy) W.; reared on farm. B.S., Univ. Neb., 1915.

Weber, George Grover, co. agrl. agt., York, Pa.

Princ. high-sch., Snow Shoe, Pa., 1912–4; co. agt., 1917—. *b.* Helvetia, Pa., Mar. 28, 1889; *s.* Lewis B. and Susannah (Haag) W.; reared on farm. B.S., Penn. State Coll., 1917. Alpha Zeta; Phi Kappa Phi.

Webster, Edwin Harrison, manufacturer dairy products, 425 Battery St., San Francisco, Calif.

Asst. dairying, Kans. State Agr. Coll., 1901–2; asst. prof., 1902–3; field expert, Dairy Div., U. S. Dept. Agr., 1903; chief Dairy Div., 1905–9; dean and dir. Kans. State Agr. Coll. and Exp. Sta., 1909–13; asst. general manag., Calif. Central Creameries, 1915—. *Assoc. ed.*, Hoard's Dairyman, 1914–5. *b.* Yates Center, Kans., Feb. 25, 1871; *s.* Rufus D. and Harriet Elizabeth (Edwards) W.; reared on farm; *m.* Florence Eleanor Fryhofer, Apr. 10, 1901; *c.* Wilma. B.S., Kans. State Agr. Coll., 1896. B.S.A., Ia. State Coll., 1901; M.S.A., Kans. State Agr. Coll., 1901.

Webster, Samuel C. Jr., teach. agr., 908 Berkeley Ave., Trenton, N. J.

b. Philadelphia, Pa., Aug. 11, 1888; *s.* Samuel and Hannah (Henderson) W.; reared on farm; *m.* Annie Kenyon; *c.* Mildred Eleanor. B.S., R. I. State Coll., 1912. Theta Chi.

Weeks, Charles Rozell, supt. Fort Hays Exp. Sta., Hays, Kans.

Supt. schs., Fairmont, Neb., 1907–9; prof. agr., State Normal Sch., Peru, 1909–12; prof. agr., dir. ext. and farm insp., Winthrop Normal and Ind. Coll., Rock Hill, S. C., 1912–6; present position, 1916—. Pres. S. C. Fed. of Fairs. *Auth.:* Hand Book on Alfalfa, 1913. *b.* York, Wis., Aug. 15, 1878; *s.* Chas. Egbert and Martha A. (Poe) W.; reared on farm; *m.* Lelia Mae Avery, Aug. 15, 1907; *c.* Clarissa Jane, Hubert Avery, Chas. Poe. B.Sc., Univ. Neb., 1907; A.B. in Ed., Peru State Normal, 1912. Kappa Sigma.

Weeter, Harry Montgomery, dairy bact., U. S. Bur. Chem., Denver, Colo.

Teach. sci., high-sch., Parnassus, Pa., 1911–2; Connellsville, Pa., 1912–4; asst.

dairy bact., Ill. Exp. Sta., 1914–7; asst. prof. dairy bact., Purdue Univ., 1917–8; present position, 1918—. *b.* Sligo, Pa., Dec. 7, 1887; *s.* Wm. M. and Jane A. (Vogle) W.; reared on farm and in town; *m.* Ida Mabel Slout, Aug. 8, 1914. B.A., Allegheny Coll., 1911; M.S., Univ. Ill., 1917. Phi Beta Kappa; Sigma Xi; Phi Gamma Delta.

Weimer, James LeRoy, asst. path., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Fellow, Cornell Univ., 1912–3; asst. plant path., 1913–4; instr., 1914–6; asst. bot., Purdue Exp. Sta., 1916–7; present position, 1917—. *b.* Avilla, Ind., Jul. 12, 1887; *s.* Samuel and Susanna Lydie (Simon) W.; reared on farm; *m.* Hortense A. Williams, May 17, 1913; *c.* Robt. LeRoy. A.B., Wabash Coll., 1912; Ph.D., Cornell Univ., 1916.

Weinstock, Harris, merchant, 19 Presidio Place, San Francisco, Calif.

Engaged in business, San Francisco, 1872–6; Sacramento with David Lubin, 1874; vice-pres. Weinstock, Lubin & Co., 1888—. Mem. Calif. State Bd. Hort., 1895; special labor comnr. appointed by Gov. Gillett, 1908; appointed by Gov. Johnson to invest. I. W. W., 1912; appointed mem. Am. comn. to invest. European system of rural credits, 1913; appointed by Pres. Wilson mem. Ind. Relations Comn., 1913; appointed by Gov. Johnson, mem. Calif. Ind. Accident Comn., 1913; appointed by Gov. Johnson state market dir. for Calif. Mem. exec. bd., Nat. Civic Fed.; vice-pres. Jewish Publication Soc. of Am. *Auth.:* Jesus, the Jew, 1902; Strikes and Lockouts, 1909. *b.* London, England, Sept. 18, 1854; *s.* Solomon and Rachel W.; *m.* Barbara Fesenthal, Feb, 24, 1878.

Weir, Walter Wallace, asst. prof. soil tech., Univ. Calif., Berkeley, Calif.

Senior drainage engin., U. S. Dept. Agr., 1907–17; present position, 1914—. *b.* Vacaville, Calif., Oct. 16, 1882; *s.* James C. and Janetta (Nicholl) W.; reared on farm; *m.* May Ruth Beach, Jan. 20, 1914; *c.* W. W. Jr. Student, Univ. Calif.

Weir, Wilbert W., asst. prof. soils, Univ. Wis., Madison, Wis.

Auth.: (with Shutts) Agricultural Arithmetic, 1916. *b.* Vernon, Wis., June 24, 1882; *s.* James D. and Mary (Krause) W.; reared on farm; *m.* Marybelle R. Jacobs, June 28, 1910; *c.* Emily Beatrice. B.S., Univ. Wis., 1908; M.S., 1917. Alpha Zeta.

Weld, Robert James, farmer, Sugar Grove, Pa.

Asst. to dir., Penn. Exp. Sta., 1893–6. Mem. Pa. State Bd. Agr., 1895—. Farmers' inst. lect., 1900–15; movable sch. worker, 3 yrs.; pres. Warren Co. Farm Bur. *b.* Sugar Grove, Pa., Oct. 27, 1868; *s.* Wm. and Christina S. (Falconer) W.; reared on farm; *m.* Fannie Wright, June 5, 1902; *c.* Robt. A. Student Penn. State Coll.

Weldon, George Percival, chief deputy state comnr. hort., Sacramento, Calif.

Deputy state ent., Md. Agr. Coll., 1906–7; field ent., Colo. Agr. Coll., Delta, 1907–8; Grand Junction, 1909–11; deputy state ent., Colo. Exp. Sta., 1911–3; present position, 1913—. Pres. Pacific Slope Branch, Am. Assoc. Econ. Ent., 1917–8. *Auth.:* Apple Growing in California, 1914; Pear Growing in California, 1918. *b.* Loveland, Colo., Feb. 15, 1880; *s.* Geo. and Sarah (Samuels) W.; reared on farm; *m.* Velma B. Appleman, Sept. 1908; *c.* Margaret Sarah, Hubert Percival, Geo. Howard. B.S., Colo. Agr. Coll., 1906; M.S., 1915.

Welles, Winthrop Selden, dir. Sch. Educational Agr., Normal Sch., and state superv. voc. agrl. instr., River Falls, Wis.

Rural sch. teach., 2 yrs.; princ. graded sch., 2 yrs.; princ. high-sch., 1 yr.; supt. city schs., 5 yrs.; head biol. dept., Normal Sch., River Falls, 5 yrs.; present position, 1912—; superv. voc. agrl. instr. for Wis., 1917—. *b.* Penfield, Ill., Jan. 1, 1875; *s.* Joseph H. and Sarah Ann (Jones) W.; reared on farm; *m.* Anna Gertrude Hisel, Sept. 2, 1897; *c.* Barbara. Grad. State Normal Univ. Ill., 1897; B.S., Univ. Ill., 1901.

Wellington, Richard, asst. prof. pom. and pom. Exp. Sta., Univ. Minn., University Farm, St. Paul, Minn.

Pom., N. Y. Agr. Exp. Sta., Geneva, 1906–13; present position, 1913—. *b.* Waltham, Mass., Oct. 10, 1884; *s.* Edward and Mary (Worcester) W.; reared on farm; *m.* Minerva Collins, Oct. 10, 1912; *c.* Mary Elizabeth. B.S.,

Mass. Agr. Coll., 1906; M.Sc., Harvard Univ., 1911.

Wells, George Frederick, minister, Poughquag, N. Y.

Research sec. Vt. Interdenominational Comity Comn., 1908–10; asst. dept. Christian sociol., Drew Theol. Sem., in chg. Bur. Field Work in N. Y. City, 1910–2; research and asst. sec., Fed. Council of Churches of Christ in Am., 1910–3; dir. community recreations, Tyringham, Mass., 1913; chm. country church sect., Methodist Fed. for Social Serv., 1910–5. *Ed.*, country church dept., The Expositor, Cleveland, O., 1910–5. *b.* Bakersfield, Vt., Mar. 13, 1878; *s.* Lucian Lemuel and Katherine Elizabeth (Learned) W.; reared on farm; *m.* Lucy Landon Allen, Feb. 22, 1910; *c.* Horace Dewey, Lucian Allen. B.S., Univ. Vt., 1903; B.D., Drew Theol. Sem., 1908.

Wells, Howard N., co. agrl. agt., Claremont, N. H.

In manufacturing business, office specialties, 1900–14. Sec. to Senator G. H. Witter, 1910; agt. Sullivan Co., N. H., 1914—. *b.* Pike, N. Y., Dec. 24, 1879; *s.* Julian L. and Thresa (Shuknecht) W.; reared on farm; *m.* Marie S. Knowlton, June 25, 1913. Student Cornell Univ.

Wendt, John M., co. agrl. agt., Centreville, Mich.

Teach. agr., high-sch., Union City, Mich., 1913–4; dairy farmer, 1914. *b.* Mich., Jul. 18, 1888; *s.* Martin F. and Elizabeth (Gombert) W.; reared on farm; *m.* Laura L. Browne, Oct. 4, 1915; *c.* John M. Jr. B.S., Mich. Agr. Coll., 1913.

Wentling, John Philip, assoc. prof. for., Univ. Minn., University Farm, St. Paul, Minn.

Prof. for., Pa. State For. Acad., 1906–8; asst. prof. for., Univ. Minn., 1908–13; assoc. prof., 1913—. *Auth.:* (with Cheyney) The Farm Woodlot, 1914. *b.* Knox, Pa., Feb. 2, 1878; *s.* Eli and Christina (Barlelt) W.; reared on farm; *m.* Lucy Evelyn Price, Dec. 27, 1906; *c.* Margaret Evelyn, John P. Jr. A.B., Franklin and Marshall Coll., Lancaster, Pa., 1902; A.M., 1904; grad. student, Yale Univ., 1905–6. Sigma Xi; Phi Sigma Kappa.

Wentworth, Edward Norris, prof. an. breeding, Kans. State Agr. Coll., Manhattan, Kans.

Assoc. prof. an. husb., Ia. State Coll., 1907–13; assoc. ed. Breeders' Gazette, 1913–4; present position, 1914—. Captain in 164th Brigade, Field Artillery, 1917—. *b.* Dover, N. H., Jan. 11, 1887; *s.* Elmer Marston, and Elizabeth Tilton (Towne) W.; reared in country town; *m.* Alma B. McCulla, June 14, 1911; *c.* Edward N. Jr. B.S.A., Ia. State Coll., 1907; M.S., 1909. Sigma Alpha Epsilon; Alpha Zeta; Phi Kappa Phi; Sigma Delta Chi.

Wentz, John Budd, prof. agron., Md. Agr. Coll., College Park, Md.

Teach. agr., State Normal Sch., Spearfish, S. D., 1913–4; in U. S. Dept. Agr., Off. Western Irrig., 1914–5; asst. farm crops, Cornell Univ., 1915–6; present position, 1916—. *b.* Chariton, Ia., Mar. 4, 1891; *s.* John A. and Harriet E. (Taylor) W.; reared on farm; *m.* Hazel Edna Patterson, Sept. 22, 1915. B.S.A., N.D. Agr. Coll., 1913; M.S.A., Cornell Univ., 1916. Alpha Zeta; Phi Kappa Phi.

Werner, John C., head dept. rural educ. and teach. training, State Normal Sch., Albion, Ida.

Teach. rural schs., Ind., 3 yrs.; princ. high-sch., Perry Twp., Ind., 1899–1904; co. supt., Fulton Co., 1906–11; pres. Rochester Normal, 1911–2; head home study dept., Kans. State Agr. Coll., 1913–5; present position, 1915—. Inst. lect. *b.* Ind., Oct. 28, 1874; *s.* Geo. and Leah (Chrites) W.; reared on farm; *m.* Sadie Sausaman, Sept. 9, 1903; *c.* Richard Stanley, Robt. Donovan, Helen Kathryn. A.B., Ind. Univ., 1905; A.M., Univ. Chicago, 1913. Phi Delta Kappa.

West, Calvin Parker, co. agrl. agt., Hayward, Wis.

b. Merrill, Wis., Jan. 24, 1891; *s.* Louis P. and Hattie (Parker) W.; reared on farm; *m.* Luella Alice Post; *c.* Calvin P. Jr. B.S.A., Univ. Wis., 1913.

West, Franklin Lorenzo Richards, dir. Sch. General Sci. and prof. physics, Utah Agr. Coll., and meteorologist Exp. Sta., Logan, Utah.

b. Ogden, Utah, Feb, 1, 1885; *s.* Joseph Alva and Josephine (Richards) W.; reared in city; *m.* Gladys Spencer,

Aug. 19, 1904; *c.* Virginia Gladys, Marjorie. B.S., Utah Agr. Coll., 1904; Ph.D., Univ. Chicago, 1911. Sigma Xi.

West, James Thomas, assoc. prof. agron., Miss. A.&M. Coll., Agricultural College, Miss.

Asst. prof. agron., Miss. A.&M. Coll., 1913–5; assoc. prof., 1915—; co. dem. work, Oktibbeha Co., Miss., 1918. *b.* Waynesboro, Miss., Feb. 15, 1889; *s.* John I. and Nancy C. (Davis) W.; reared on farm; *m.* Louise Marshall, Dec. 27, 1917. B.S.A., Miss. A. & M. Coll., 1912; M.S.A., 1918.

West, Ray Benedict, dir. agrl. engin. and mech. arts, Utah Agr. Coll., Logan, Utah.

b. Ogden, Utah, Oct. 21, 1882; *s.* Joseph A. and Josephine (Richards) W.; reared in city; *m.* Mary A. Morrell, Sept. 20, 1905; *c.* Ray B. Jr., Alan Morrell, Philip Leon, Willard Joseph. B.S., Utah Agr. Coll., 1904; C.E., Cornell Univ., 1906.

West, Rodney Mott, sec. dept. agr., Univ. Minn., University Farm, St. Paul, Minn.

Instr. agrl. chem., Univ. Minn., 1909; asst. prof., 1910–6; present position, 1916—. *b.* Faribault, Minn., Jul. 27, 1884; *s.* Willis Mason and Millie (Mott) W.; reared in small town; *m.* Edna L. Greaves, 1907; *c.* Miriam, Mary Mott. B.A., Univ. Minn., 1906. Sigma Xi; Alpha Chi Sigma.

Wester, Peter Johnson, agrl. adv., dept. of Mindanao-Sulu, Zambaonga, Philippine Isls.

Special agt., Subtrop. Lab. and Garden, Miami, Fla., 1904–6; gardener, 1907–9; in chg., 1909–10; hort., Bur. Agr., Philippines, 1910–2; chg. Lamao Exp. Sta., 1912–7; present position, 1918—. Contributing ed., Philippine Agricultural Review. *b.* Arvea, Sweden, Sept. 23, 1877 (naturalized 1904); *s.* Johnson J. and Anna Christian (Mickelson) W.; reared on farm; *m.* Anna Augusta Anderson, Jan. 1, 1905; *c.* Robt. Emerson, Horace Volney, Anna Elizabeth, Ruth Theresia. Grad. Gepleborgs Lans Folkhogskola, 1895.

Westgate, John Minton, agron. in chg. Hawaii Agr. Exp. Sta., Honolulu, Hawaiian Isls.

Asst. bot., Kans. State Agr. Coll., 1899–1901; sci. asst. in sand-binding work, U. S. Dept. Agr., 1903–5; chg. alfalfa and clover invests., 1905–11; chg. clover invests., 1911–4; present position, 1915—. *b.* Kingston, N. Y., Feb. 17, 1878; *s.* Hollis Smith and Clara (Minton) W.; reared on farm; *m.* Inez Wheeler, Jul. 20, 1905; *c.* Philip John, Mark Wheeler. B.S., Kans. State Agr. Coll., 1897; M.S., 1899; grad. student Univ. Chicago, 1901–3. Phi Kappa Phi.

Wettyen, Harold E., co. agrl. agt., Court House, Paterson, N. J.

b. Cedar Grove, N. J., Jan. 5, 1895; *s.* Ehler O. and Ella O. (Jacobus) W.; reared on farm; *m.* Grace D. Johnson, Aug. 27, 1917. B.S.A., Rutgers Coll., 1917. Phi Gamma Delta.

Wheeler, Clark Sanford, dir. agrl. ext., Ohio State Univ., Columbus, O.

Asst. agrl. ext., Ohio State Univ., 1912–4; superv. ext. schs., 1914–5; dir. agrl. ext., 1915—. *b.* Paulding, O., Jan. 14, 1890; *s.* Wm. J. and Nettie (Clark) W.; reared in country; *m.* Coral M. Schovill, Aug. 6, 1913; *c.* Virginia Mary, Doris Ellen. B.S.A., Ohio State Univ., 1912. Alpha Zeta.

Wheeler, George C., ed. Kansas Farmer, Topeka, Kans.

Asst. live-stock, Kans. State Agr. Coll., 1902–4; asst. in feeding expts., 1904–5; instr. an. husb., 1904–6; asst. prof., 1906–9; ext. specialist an. husb., 1909–13; assoc. ed. Kansas Farmer, 1913–5; ed., 1915—. *b.* Burlington, Kans., Feb. 1, 1872; *s.* Geo. J. and Julia (Carpenter) W.; reared on farm; *m.* K. Myrtle Smith, 1898; *c.* Ruth, Geo. S., Helen, Frances. B.S., Kans. State Agr. Coll., 1895. Alpha Zeta; Phi Kappa Phi; Sigma Delta Chi.

Wheeler, Homer J., manag. Agrl. Serv. Bur., The Am. Agrl. Chem. Co., 92 State St., Boston, Mass.

Asst. chem., Mass. Exp. Sta., 1883–7; chief chem., R. I. Exp. Sta., 1889–1907; prof. geol., R. I. State Coll., 1891–1912; prof. agrl. chem., 1902–10; acting pres., 1902–3; dir. R. I. Exp. Sta., 1900–12; present position, 1912—. Ex-pres. Assoc. of Official Agrl. Chem.; Am. Soc. Agron. Traveled in Europe. *Auth.:* Manures and Fertilizers, 1913. *b.* Bolton, Mass., Sept. 2, 1861; *s.* Jesse B. and Martha Ann (Sykes) W.; reared on farm; *m.* Frieda

H. F. Ruprecht, May 15, 1891; *c.* Carl Otto, Wm. Edwin, Roland Arthur. B.Sc., Mass. Agr. Coll. and Boston Univ., 1883; M.A., Ph.D., Univ. Goettingen, Germany, 1899; M.Sc., Brown Univ., 1911. Alpha Sigma Phi.

Wheeler, John Taylor, prof. agrl. educ., Univ. Ga., Athens, Ga.

Princ. consolidated rural high-sch., Osceola, Pa., 1909–10; instr., Mansfield State Normal Sch., 1911–3; superv. schs., Westfield, Pa., 1912–3; asst. prof. hort., Mass. Agr. Coll., 1916–8; present position, 1918—. *b.* Towanda, Pa., Jan. 15, 1886; *s.* M. B. and Florence (Stratton) W.; reared on farm; *m.* Belle Evelyn Grigson, Aug. 24, 1916. B.S.A., Univ. Wis., 1916.

Wheeler, Price Harlan, co. agrl. agt., Lakin, Kans.

b. Cameron, Mo., Aug. 7, 1887; *s.* W. H. and Caroline (Harlan) W.; reared on farm; *m.* Hazel Grace Maddux, June 19, 1918. B.S.A., Kans. State Agr. Coll., 1916. Alpha Zeta; Phi Gamma Delta; Pi Kappa Delta.

Wheeler, Ralph Hicks, prof. ext. teach., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Asst. instr. ext. teach., Cornell Univ., 1909–10; instr., 1910–2; asst. prof., 1912–7; prof., 1917—. Dir. Ont. Co. Agrl. Soc., 3 yrs. *b.* E. Bloomfield, N. Y., Sept. 11, 1883; *s.* Geo. A. and Mary Belle (Hicks) W.; reared on farm; *m.* Jessie Elizabeth Hart, Aug. 19, 1909; *c.* Elizabeth Cornell, Kenneth Eugene, Ralph Hicks Jr. B.S., Cornell Univ., 1912. Alpha Gamma Rho.

Wheeler, Wilfrid, farmer and comnr. of agr., State House, Boston, Mass.

Dir. inst. work in Mass. Trustee Mass. Agr. Coll. *b.* Concord, Mass., Sept. 8, 1876; *s.* Geo. F. and Alice (Rattray) W.; reared on farm; *m.* Emily H. Lillie, Sept. 8, 1898; *c.* Wilfrid Jr., Chas. Lincoln, Richard Parkman. Studied Brown Univ., Harvard Univ. Zeta Psi.

Wheeler, William Archie, specialist in seed marketing, in chg. seed reporting serv., Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Instr. bot., Univ. Minn., 1900–3; prof. bot., S. D. State Coll., 1903–7. *b.* Stockton, Minn., June 28, 1876; *s.* Chas. Adams and Sylvia Maria (Allen) W.; reared in country and city; *m.* Harriet Maria Alden, June 3, 1901; *c.* Harold Alden, Helen May, Margaret, Catherine, Harriet. B.Agr., Univ. Minn., 1900; M.S., 1901. Sigma Xi.

Whelan, Don Bion, ext. ent., Mich. Agr. Coll., E. Lansing, Mich.

Teach. sci. and athletics, St. Johns, Mich., 1910–1; hist. and athletics, Hudson, 1911–2; grad. asst., Ohio State Univ., 1914–5; present position, 1915—. Pres. Ingham Co. Beekeepers' Assoc. *b.* Hillsdale, Mich., Nov. 25, 1887; *s.* Bion J. and Minnie L. (Allen) W.; reared in small city; *m.* Ellis Berridge, Aug. 7, 1917. A.B., Hillsdale Coll., 1910; M.S., Kans. State Agr. Coll., 1914. Delta Tau Delta; Phi Sigma.

Whetzel, Herbert Hice, prof. plant path., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Asst. bot., Cornell Univ. Exp. Sta., 1902–5; asst. prof. bot., Cornell Univ., 1905–6; asst. prof. plant path., 1906–9; prof., 1909—. Pres. Am. Phytopath. Soc., 1915; chm. War Emergency Bd. of Am. Plant Pathologists, 1918. *Auth.:* (with Hesler, Gregory, Rankin), Laboratory Outlines in Plant Pathology, 1916; (with Hesler) Manual of Fruit Diseases, 1917; Outlines of the History of Plant Pathology, 1918. *b.* near Avilla, Ind., Sept. 5, 1877; *s.* Joseph C. and Gertrude (Eckels) W.; reared on farm; *m.* Lucy E. Baker, 1904; 2d, Bertha A. Baker, 1914; *c.* Lucy G., Joseph C. Jr. A.B., Wabash Coll., 1902; M.A., 1906. Phi Beta Kappa; Sigma Xi; Phi Delta Theta; Gamma Alpha.

Whipple, Orville B., prof. hort. and hort. Exp. Sta., Mont. State Coll., Bozeman, Mont.

Instr. hort., Colo. Agr. Coll., 1905–6; field hort., Colo. Exp. Sta., 1906–9; present position, 1909—. *Auth.:* (with Paddock) Fruit-Growing in Arid Regions, 1911. *b.* Ottawa, Kans., Dec. 8, 1879; *s.* I. L. and Indiana Lucy (Davis) W.; reared on farm; *m.* Myrtle M. Lothian, Feb. 3, 1909; *c.* Kenneth, Francis, Jean. B.S., Kans. State Agr. Coll., 1904. Phi Kappa Phi.

Whitaker, Francis Henry, co. agrl. agt., Winnsboro, La.

Prof. manual training and math., Noxu-

bee Co. Agrl. High-Sch., Miss., 1913–4; princ. Beech Grove Consolidated High-Sch., Violet, Miss., 1914–5; prof. math. and princ. high-sch. dept., high-sch., Jonesville, 1915–6; princ. and prof. agr., Cent. Agrl. High-Sch., 1916–7; agt. Franklin Parish, La., 1917—. *b.* Whitaker, Miss., Sept. 19, 1894; *s.* James W. and Sallie G. (Robert) W.; reared on farm; *m.* Cecile M. Armstrong, Jan. 20, 1917; B.S., Miss. A.&M. Coll., 1913.

Whitaker, Helen Dow, prof. and head poultry dept., Wash. State Coll., Pullman, Wash.

Teach. math., State Normal, Cheney, Wash., 1893–5; Whitworth Coll., 1896–8; high-sch., Spokane, 1899–1901; Normal Sch., Moorhead, Minn., 1902–6; Univ. Minn., summer 1906; present position, 1915—. Mem. educ. com., Am. Poultry Assoc.; dir. All-Northwest Egg Laying Contest. Poultry farmer, 7 yrs. *b.* Minneapolis, Minn., Aug. 1, 1872; *d.* L. A. and Marie Louise (Chapin) Dow; reared in city; *m.* W. K. Whitaker, Dec. 18, 1911. B.S., Univ. Chicago, 1902.

Whitcomb, Warren Draper, sci. asst., Bur. Ent., U. S. Dept. Agr., Washington, D. C.

b. Waltham, Mass., June 3, 1895; *s.* John F. and Eva F. (Draper) W.; reared in city. B.Sc., Mass. Agr. Coll., 1917.

Whitcomb, William C., asst. prof. agron., Mont. State Coll., Bozeman, Mont.

Asst. agrst., U. S. Dept. Agr., 1909–12; present position, 1913—. *b.* Crary, N. D., Nov. 25, 1884; *s.* Wm. R. and Ruth (Orr) W.; reared on farm; *m.* Abigail Hess, Aug. 15, 1914. *c.* 1 daughter. B.S.A., N. D. Agr. Coll., 1909; M.S.A., Cornell Univ., 1913. Alpha Zeta; Phi Kappa Phi.

White, David Stuart, dean Coll. Vet. Med., Ohio State Univ., Columbus, O.

Asst. vet. med., Ohio State Univ., 1893–5; head dept., 1895—. Major, Vet. Corps, Nat. Army, 1917—. *Translator:* Malkmus' Physical Diagnostics, 1901. *Auth.:* Principles and Practice of Veterinary Medicine, 1917. *b.* New Brighton, N. Y., Sept. 23, 1869; *s.* Wm. Henry and Catharine Ann (Elliott) W.; *m.* Nellie Eliza Smith, June 24, 1896. D.V.M., Ohio State Univ., 1890; studied Germany and Austria, 1890–3. Sigma Xi; Alpha Psi.

White, Earl Archibald, asst. prof. farm mech., Univ. Ill., Urbana, Ill.

Instr. farm mech., Univ. Ill., 1908–11; assoc., 1913–4; asst. prof., 1916—. *b.* Antioch, Ill., Dec. 17, 1883; *s.* David M. and Margaret (McCredie) W.; reared on farm; *m.* Helen Mohr Johnston, Aug. 18, 1917. B.S., Univ. Ill., 1908; M.S., Univ. Wis., 1913; Ph.D., Cornell Univ., 1917. Sigma Xi.

White, Edna Noble, prof. and head dept. home econ. and superv. home econ. ext., Ohio State Univ., Columbus, O.

Teach. high-sch., Danville, Ill., 1906–7; instr. home econ., Lewis Inst., Chicago, 1907–8; assoc. prof. home econ., Ohio State Univ., 1908–13; present position, 1913—. Pres. Am. Home Econ. Assoc.; home econ. dir. in chg. food conservation, O. Food Administration; chm. Food Div., Woman's Com., O. Branch Council Nat. Defense. *Auth.:* (with Wardall) A Study of Foods, 1913. *b.* Fairmount, Ill., June 3, 1880; *d.* Alexander L. and Angeline E. (Noble) W.; reared in village. A.B., Univ. Ill., 1906. Pi Beta Phi.

White, Edward Albert, prof. flor., Cornel Univ., Ithaca, N. Y.

Asst. hort. in chg. greenhouses, Mass. Agr. Coll., 2 yrs.; chg. gardens, C. A. Griscom estate, Haverford, Pa., 1 yr.; commercial work, Arlington, Mass., 3 yrs.; teach. hort., Baron de Hirsch Sch., Woodbine, N. J., 1 yr.; asst. hort., Tex. A.&M. Coll., 2 yrs.; prof. bot., Conn. Agr. Coll., 5 yrs.; prof. flor., Mass. Agr. Coll., 6 yrs.; present position, 1913—. Sec. Am. Rose Soc.; sec. N. Y. Federation Hort. Societies and Floral Clubs. *Auth.:* Principles of Floriculture, 1915. *b.* W. Townsend, Mass., May 23, 1872; *s.* Edward and Susan (Gates) W.; reared on farm; *m.* Cora Crittenden, June 30, 1903; *c.* Emerson E., Kendall C., Barbara C. B.Sc., Mass. Agr. Coll., 1895. Kappa Sigma; Phi Kappa Phi.

White, Elizabeth Coleman, grower of cranberries and blueberries, New Lisbon, N. J.

Sec. Bd. Managers, N. J. State Colonies for Feeble Minded Males. *b.* New Lisbon, N. J., Oct. 5, 1871; *d.* Joseph J. and Mary A. (Fenwick) W.; reared on farm. Grad. Friends' Cent. Sch., Philadelphia, 1890.

White, Frank M., engin. ed., Orange Judd and Phelps Pub. Co., Chicago, Ill.
Instr. agrl. engin., Univ. Wis., 1909–14; asst. prof., 1914–5; present position, 1918—. Sec.-treas. Am. Soc. Agrl. Engin., pres., 1916. *b.* Dewey, Ill., June 21, 1885; *s.* Marshall E. and Mary Josephine (Harless) W.; reared on farm; *m.* Mary Andrews Bickel, June 18, 1913; *c.* Frank Marshall. B.S., Univ. Ill., 1909; M.S., Univ. Wis., 1913. Sigma Xi.

White, George C., prof. dairy husb., Conn. Agr. Coll., Storrs, Conn.
Asst. dairy husb., Univ. Mo., 1911–2; instr., 1912–3; asst. prof., Univ. Neb., 1913–4; present position, 1914—. *b.* Harrisonville, Mo., May 25, 1887; *s.* Richard H. and Arabelle (Whited) W.; reared on farm; *m.* Lucille Farnham, May 20, 1912; *c.* Richard Farnham, G. Preston, Robt. Crawford. B.S.A., Univ. Mo., 1910; A.M., 1912. Sigma Xi; Gamma Sigma Delta.

White, Henry Ellis, co. agrl. agt., Hot Springs, Ark.
Princ. agr., high-sch., Marksville, La., 1916–7; agt. Garland Co., Ark., 1917—. *b.* McLean Co., Ky., Feb. 2, 1891; *s.* James Joseph and Anne Lee (Ward) W.; reared on farm. B.S.A., Univ. Wis., 1916; grad. student, Univ. Wis., Univ. Chicago.

White, Joseph Josiah, fruit-grower, New Lisbon, N. J.
Pres. Growers' Cranberry Co.; dir. Am. Cranberry Exchange, N. Y.; pres. The Farmers' Trust Co., Mt. Holly, N. J. *Auth.:* Cranberry Culture, 1870. *b.* near Birmingham, N. J., Jan. 22, 1846; *s.* Barclay and Rebecca Merritt (Lamb) W.; reared on farm; *m.* Mary Anne Fenwick, Nov. 11, 1869; *c.* Rebecca M., Elizabeth C., Mary F., Beulah S., Anne P., Barclay, Joseph.

White, Ross Paul, co. agrl. agt., Thief River Falls, Minn.
b. Grand Junction, Ia., Apr. 30, 1890; *s.* Abner Baldwin and Charlotte Mae (Rogers) W.; reared on farm; *m.* Bertha Ellen Steward, Aug. 18, 1915; *c.* Paul Steward. B.S., Ia. State Coll., 1914. Gamma Sigma Delta.

White, William Renwick, asst. prof. agrl. educ., Penn. State Coll., State College, Pa.
Farm supt., 1907–11; present position, 1911—. *b.* Grove City, Pa., Apr. 22, 1878; *s.* David P. and Elizabeth (Rainy) W.; reared on farm. B.A., Geneva Coll., 1901; B.S., Penn. State Coll., 1907; M.S., 1913; M.A., 1917.

Whitehouse, James William, co. agrl. agt., Owensboro, Ky.
Teach. public schs., Spencer Co., Ky., 3 yrs.; prof. an. husb., Berea Coll., 1914–6. *b.* Anderson Co., Ky., Jul. 15, 1886; *s.* Joseph Thos. and Sarah Elizabeth (Stinnett) W.; reared on farm. B.S.A., Univ. Ky., 1914; M.S.A., 1916. Alpha Zeta.

Whitlow, W. R., co. agrl. agt., Russellville, Ky.
Mem. Ky. Legislature, 1908, 1910. *b.* Oakland, Ky., Jul. 24, 1882; *s.* Alph and Elizabeth (Cole) W.; reared on farm; *m.* Gertrude Horne, June 6, 1911.

Whitney, Clifford C., asst. prof. vet. path., Tex. A.&M. Coll., College Station, Tex.
Instr. vet. path. and bact., Univ. Penn., 1915–6; present position, 1916—. *b.* Orange, Mass., May 31, 1891; *s.* Edward and Mary E. (Stone) W.; reared in town and country. D.V.M., George Washington Univ., 1914; V.M.D., Univ. Penn., 1915. Sigma Alpha Epsilon.

Whitney, Milton, chief Bur. Soils, U. S. Dept. Agr., Washington, D. C.
Asst. chem., Conn. Exp. Sta., 1883; supt. exp. farm of N. C. Exp. Sta., 1886–8; prof. agr., Univ. S. C. and vice-dir. S. C. Exp. Sta., 1888–91; soil physicist, Md. Exp. Sta., 1891–4; present position, 1894—. *b.* Baltimore, Md., Aug. 2, 1860; *s.* Milton and Anne M. W.; reared on farm; *m.* Annie C. Langdon, June 30, 1891; *c.* Dorothy W., Milton Jr., Walter L., Courtney, Alden H. Special 3 yr. course chem., Johns Hopkins Univ.

Whitson, Andrew Robeson, prof. soils, Univ. Wis., Madison, Wis.
Princ. high-sch., Beloit, Wis., 1895–8; asst. prof. soil physics, Univ. Wis., 1899–1901; prof., 1901—. Del. to Inter. Agrl. Congress, Vienna, 1907. *Auth.:* Notes on Soils, 1910; (with Walster) Soils and Soil Fertility, 1912. *b.* Stanton, Minn., Oct. 9, 1870; *s.* Andrew and Abigail (Dack) W.; reared on farm and in town; *m.* Josephine Fitch, Aug. 11, 1897; *c.* Kenneth Fitch, Merritt Bragdon,

Rosamunde Louise. B.S., Univ. Chicago, 1894. Sigma Xi; Alpha Zeta.

Whitten, John Charles, prof. pom. and pom. Exp. Sta., Univ. Calif., Berkeley, Calif.

Instr. and hort., S. D. State Coll., 1892; asst. hort., Mo. Bot. Gard., 1893–4; prof. hort. and hort. Exp. Sta., Univ. Mo., 1895–1918; present position, 1918—. Pres. Mo. State Hort. Soc., 1902–3. *Auth.:* Strawberry Culture, Apple Growing, Pruning Fruit Trees, 1903. *b.* Augusta, Me., Sept. 14, 1866; *s.* Albert and Viola (Sylvester) W.; reared on farm; *m.* Nora Todd, Oct. 31, 1895; *c.* Robt. Todd, Sylvester, Martha E. B.S., S. D. State Coll., 1892; M.S., 1896; Ph.D., Univ. Halle, Germany, 1902. Sigma Xi; Alpha Zeta; Sigma Kappa Zeta; Gamma Sigma Delta.

Wickland, Lawrence Andrew, co. agrl. agt., Aurora, Neb.

Asst. agrl. engin., Univ. Neb., 1915; teach. manual training and mech. drawing, pub. schs., Lincoln, 1916. *b.* Mead, Neb., Oct. 24, 1886; *s.* Andrew and Nellie (Johnson) W.; reared on farm. B.S.A., Univ. Neb., 1915. Alpha Zeta.

Wickson, Edward James, ed. and prof. hort. emeritus, Univ. Calif., Berkeley, Calif.

Lect. practical agr., Univ. Calif., 1879–91; assoc. prof. agr., 1891–7; prof. agrl. practice and supt. ext. dept., 1897–1907; dean Coll. Agr. and acting dir. Exp. Sta., 1905–7; dean and dir., 1907–13; prof. hort., 1913–5; emeritus, 1915—. Organized first dairy assoc. in Calif., 1876; sec. Calif. State Hort. Soc., 1879—; pres. Calif. Floral Soc., 1888–1900. Trustee Calif. Poly. Sch., 1902–14; mem. Nat. Council of Hort., 1904–12. Del. from Calif. to Comn. on Rural Credits visiting Europe, 1913. *Auth.:* California Fruits and How to Grow Them, 7th ed. 1914; California Vegetables in Garden and Field, 4th ed. 1917; California Garden Flowers, Trees and Vines, 1915; One Thousand Questions in California Agriculture Answered, 1913; Second Thousand Answered Questions in California Agriculture, 1915. *Ed.,* Pacific Rural Press, 1875—. *b.* Rochester, N. Y., Aug. 3, 1848; *s.* Geo. Guest and Catherine (Ray) W.; reared in village; *m.* Ednah Newell Harmon, Apr. 27, 1875; *c.* Ednah Harmon Kelly, Catherine Ray, Ida Robinson Thomas, Harmon, Gladys Clare, Guest. A.B., Hamilton Coll., 1869; A.M., 1872. Psi Upsilon.

Widtsoe, John Andreas, pres. Univ. Utah, Salt Lake City, Utah.

Chem., Utah Exp. Sta., 1894–1905; prof. chem., Utah Agr. Coll., 1895–1905; dir. Utah Exp. Sta., 1900–5; dir. dept. agr., Brigham Young Univ., 1905–7; pres. Utah Agr. Coll., 1907–16; present position, 1916—. Mem. Utah State Hort. Comn., 4 yrs.,; Utah State Bd. Educ., 1907—; Utah Conservation Comn., 1909—; vice-pres. Inter. Dry-Farming Congress, 1909, pres., 1912, mem. Bd. Governors, 1912–5; vice-pres. Inter. Irrigation Congress, 1915. Traveled in Europe, 2 yrs. *Auth.:* Dry-Farming, 1911; Irrigation Practice, 1914. *b.* Island of Froyeu, Norway, Jan. 31, 1872 (naturalized 1896); *s.* John A. and Anna K. (Gaarden) W.; reared in village; *m.* Leah Dunford, June 1, 1898; *c.* Anna G., Karl Marselius, Leah Eudora. Grad. normal dept., Brigham Young Univ., 1891; B.S., Harvard Univ., 1894; A.M., Ph.D., Univ. Goettingen, 1898; LL.D., Utah Agr. Coll., 1914.

Wight, William Franklin, bot. and pom., Bur. Plant Ind., U. S. Dept Agr., Washington, D. C.

Asst. bot., Stanford Univ., 1900. Del. to Inter. Congress of Bot., Vienna, 1905. Spent year in S. America. *b.* Allegan Co., Mich., June 8, 1874; *s.* Wm. and Mary E. (Stiles) W.; reared on farm; *m.* Gertrude Hawley, Jul. 31, 1901; *c.* Roland Henry, Wm. Gordon. B.S., Mich. Agr. Coll., 1894; A.B., Stanford Univ., 1899; A.M., 1900. Sigma Xi.

Wilcox, Earley Vernon, agrst. in chg. farm tenancy and farm labor, U. S. Dept. Agr., Washington, D. C.

Prof. biol., Mont. State Coll., 1896–9; assoc. ed. Exp. Sta. Record, 1899–1908; dir. Hawaii Exp. Sta., 1908–14; administrative asst., States Relations Serv., 1914–6; present position, 1917—. *Translator:* Ostertags Handbook of Meat Inspection, 1905; Guide for Meat Inspectors, 1916. *Auth.:* Farmer's Cyclopedia of Agriculture, 1904; Farm Animals, 1906; Farmer's Cyclopedia of Live-stock, 1908; Tropical Agriculture, 1916; Lights and Shadows

in Hawaii, 1913. *b.* Busti, N. Y., Feb. 16, 1869; *s.* Abram F. and Sally Maria (Mead) W.; reared on farm; *m.* Mabel Ruth Owens, June 30, 1897. A.B., Otterbein Univ., 1890; A.B., Harvard Univ., 1892; A.M., 1894; Ph.D., 1895.

Wilcox, Edwin Mead, prof. plant path., Univ. Neb., Lincoln, Neb.

Prof. bot. and ent., Okla. A.&M. Coll., 1900–1; prof. plant physiology and path., Ala. Poly. Inst., 1901–8; present position, 1908—. Fellow A. A. A. S. Traveled around world, 1899–1900, studying trop. agr. *b.* Busti, N. Y., May 21, 1876; *s.* Abram F. and Sally Maria (Mead) W.; reared on farm; *m.* Cora Ruth Eichhorn, June 29, 1889; *c.* Elizabeth Sally, Christine Louise, Mead Nicholas. B.Sc., Ohio State Univ., 1896; A.M., Harvard Univ., 1898; Ph.D., 1899. Sigma Xi; Gamma Sigma Delta; Alpha Zeta.

Wilder, Henry J., agrst., States Relations Serv., U. S. Dept. Agr., Washington, D. C.

b. Sunderland, Mass., Jan. 15, 1873; *s.* Alden and Jennie (Woodbury) W.; reared on farm; *m.* Gertrude M. Bent, Aug. 16, 1900. A.B., Harvard Coll., 1897. Theta Delta Chi.

Wiley, Harvey Washington, farmer, ed., chem., Cosmos Club, Washington, D. C.

Prof. Greek and Latin, Butler Coll., Indianapolis, 1868–70; teach. sci., Indianapolis high-sch., 1871; prof. chem., Butler Coll., 1873–4; prof. chem., Purdue Univ. and state chem. of Ind., 1874–83; prof. chem., Ind. Med. Coll., 1875–9; chief chem., U. S. Dept. Agr., 1883–1912; prof. chem., George Washington Univ. Grad. Sch., 1899–1912; consulting prof. food chem., Poly. Inst. of Brooklyn, 1905. Chm. Bd. Food and Drug Insp., 1907–12. Sec. Assoc. Official Agrl. Chem., 1889–1912, life-pres., 1912—; vice-pres. A. A. A. S., 1886, sec. council, 1890, general sec., 1891; pres. Am. Chem. Soc., 1893–4; pres. U. S. Pharmacopoeial Convention, 1910—; pres. Am. Therapeutic Soc., 1910; pres. Ind. Acad. Sci., 1902; vice-pres. Washington Acad. Sci., 1909; vice-pres. Nat. Soc. for Prevention of Adulteration and Sophistication, 1910—. Mem. Jury Awards, Chicago Expos., 1893; Paris Expos., 1900; Jamestown Expos., 1907. U. S. del. 3d Inter. Congress Applied Chem., Vienna, 1898; 4th, Paris, 1900; 5th, Berlin, 1903; 6th, Rome, 1906; 7th, London, 1909. Hon. pres. First Inter. Congress for the Repression of Adulteration of Alimentary and Pharmacopoeial Products, Geneva, 1908; corresponding mem. for U. S., Societe Universelle de la Croix-Blanche de Geneve, 1909. Chevalier du Merite Agricole, 1900; Chevalier Legion of Honor, 1909; Elliott Cresson Medal of Franklin Inst., 1910. *Auth.:* Songs of Agricultural Chemists, 1892; Principles and Practice of Agricultural Chemistry (3 vols.), 1894–7; 2d ed., 1909–11; Foods and Their Adulteration, 1907; 3d ed., 1918; 1001 Tests, 1914; 2d ed., 1916; The Lure of the Land, 1915; Not by Bread Alone, 1915. Contributing ed., Good Housekeeping Magazine, 1912—. *b.* Kent, Ind., Oct. 18, 1844; *s.* Preston P. and Lucinda Weir (Maxwell) W.; reared on farm; *m.* Anna Campbell Kelton, Feb. 11, 1911; *c.* Harvey W. Jr., John Preston. A.B., Hanover Coll., 1867; A.M., 1869; M.D., Ind. Med. Coll., 1871; B.S., Harvard Univ., 1873; Ph.D., Hanover Coll., 1881; LL.D., 1895; LL.D., Univ. Vt., 1912; Sc.D., Lafeyette Coll., 1913.

Wiley, Robert Lorenzo, co. agrl. agt., Independence, Va.

Princ. high-sch., Independence, Va., 1909–11; Fries public sch., 1911–3; instr. Elk Creek Training Sch., 1913–4; dir. agr. and manual training, 1914–5; agt. Grayson Co., 1916—. *b.* Grayson Co., Va., Aug. 16, 1877; *s.* Eli and Nannie (Bedwell) W.; reared on farm; *m.* Myrtle Rector, Sept. 5, 1911; *c.* Robt. Chapman, Rosamond. A.B., Emory and Henry Coll., 1905.

Wilkinson, Albert Edmund, co. agrl. agt., Mays Landing, N. J.

Hort., Baron de Hirsch Agr. Sch., Woodbine, N. J., 1907–8; farmer, Mass., 1908–10; hort., Lyndon Agr. Sch., Vt., 1910–2; instr. hort. and veg.-gard., Cornell Univ., 1912–3; agrl. agt., Atlantic Co., N. J., 1918—. *Auth.:* Modern Strawberry Growing, 1913; Sweet Corn, 1915; The Apple, 1915; Muck Crops, 1916. *b.* Boston, Mass., Jul. 17, 1879; *s.* Richard and Lizzie R. (Barney) W.; reared in town; *m.* Maude L. Owen, 1906; *c.* Richard Merrill. B.S., R. I. State Coll., 1906; M. Agr., 1916.

Wilkinson, Robert Shaw, pres. State A.&M. Coll., Orangeburg, S. C.

Prof. Latin, Greek and econ., Univ. Ky., 1891–6. Pres. State Teach. Assoc.; mem. exec. com., Nat. Teach. Assoc. *b.* Charleton, S. C., Feb. 18, 1865; *s.* Chas. and Lavinia (Robinson) W.; reared in city; *m.* Marion R. Birnie, June 29, 1897; *c.* Helen Raven, Robt. Shaw, Frost Birnie, Lula Love. A.B., Oberlin Coll., 1891; Ph.D., Univ. Ky., 1898.

Willaman, John James, asst. prof. plant chem., Univ. Minn., University Farm, St. Paul, Minn.

Asst. agrl. chem., Univ. Wis., 1912–3; instr., Univ. Minn., 1913–5; asst. prof., 1915—; plant chem., 1917—. *b.* Brodhead, Wis., Oct. 7, 1889; *s.* John H. and Eldora (Scoville) W.; reared in the city; *m.* Leola Lorenz, 1915; *c.* Dorothy Ellen, Janet Leola. B.S., Univ. Wis., 1912; M.S., 1914. Sigma Xi; Gamma Alpha.

Willard, Charles Julius, asst. prof. farm crops, Ohio State Univ., Columbus, O.

Farmer, Bradford, Kans., 1910–3; Williamsburg, Va., 1913–6; present position, 1917—. *b.* Manhattan, Kans., Feb. 14, 1889; *s.* Julius T. and Lydia (Gardiner) W.; reared in town; *m.* Vivien M. Ullmer, Oct. 28, 1911. B.S., Kans. State Agr. Coll., 1908; B.S.A., Univ. Ill., 1910; M.S., 1917. Sigma Xi; Alpha Zeta.

Willard, Daniel Everett, development agt., Northern Pacific Ry., 1128 Hague Ave., St. Paul, Minn.

Prof., N. D. State Normal Sch., 1895–1903; prof. geol., N. D. Agr. Coll., 1903–10; present position, 1910—. Fellow A. A. A. S., Am. Geographic Soc. of N. Y. *Auth.:* The Story of the Prairies, 1902; School Geography, 1903; Soils of North Dakota, 1909. *b.* Nile, N. Y., Aug. 22, 1862; *s.* DeWitt C. and Lavinia (Lamphear) W.; reared on farm; *m.* Emma Davis, Nov. 11, 1903; *c.* Daniel E. Jr. A.B., Alfred Coll., 1888; A.M., Alfred Univ., 1890; grad. student, Univ. Chicago, 1892–5.

Willard, Rex E., co. agrl. agt., Grand Forks, N. D.

Sci. asst., U. S. Bur. Soils, 1908–10; soil physicist, N. Mex. A.&M. Coll., 1910–2; agrst., Off. Farm Manag., U. S. Dept. Agr., 1912–8; agt. Grand Forks Co., N. D., 1918—. *b.* Friendship, N. Y., Sept. 6, 1883; *s.* Dewitt Clinton and Lavinia (Lamphear) W.; reared on farm; *m.* Ruth Thompson, Aug. 19, 1914; *c.* Winifred Ruth. B.S.A., N. D. Agr. Coll., 1908.

Williams, Carl, ed. Oklahoma Farmer-Stockman, Oklahoma City, Okla.

Copy boy to manag. ed. city newspapers, 1897–1905; ed. Scientific Farmer, 1905–6; farmer, seed-breeder and stockman, Colo., 1906–11; present position, 1913—. Sec. Sci. Farming Assoc., 1906; organized Inter. Dry-Farming Congress, 1906; pres. Colo. Grain and Seed Growers' Assoc., 1906–8. *b.* Porter Co., Ind., Mar. 30, 1878; *s.* Abraham L. and Julia Ann (Williams) W.; reared on farm; *m.* Mabel Bates, Jul. 14, 1906.

Williams, Charles Burgess, chief div. agron. and vice-dir. Exp. Sta., and dean Coll. Agr., N. C. A.&M. Coll., W. Raleigh, N. C.

With N. C. A.&M. Coll., 1894—; chem., N. C. State Dept. Agr., 1907—. *b.* Shiloh, N. C., Dec. 23, 1871; *s.* Robt. J. and Susan (Burgess) W.; reared on farm; *m.* Margaret Williams Moring; *c.* Frances, Suzanne, Frank. B.S., N. C. A.&M. Coll., 1893; M.S., 1896; scholarship student Johns Hopkins Univ., 1896–7.

Williams, F. L., co. agrl. agt., Boise, Ida.

b. Emporia, Kans., Jan. 3, 1876; reared on farm; *m.* Katherine A. Mauly; *c.* Donald M. Studied 3 yrs., Kans. State Agr. Coll.

Williams, Grace Irene, asst. prof. foods and cookery, Univ. Minn., University Farm, St. Paul, Minn.

Teach. high-schs., N. Y. State previous to 1910; teach. home econ., Milwaukee-Downes Coll., 1910–3; present position, 1913—. *b.* W. Shelby, N. Y.; *d.* John Wesley and Sarah A. (Kohler) W.; reared on farm. B.A., Teachers Coll., Columbia Univ., 1910; M.A., 1917.

Williams, Harold Julian, co. agrl. agt., Northwood, Ia.

Farm manag., 1916–7. *b.* Storm Lake, Ia., Jan. 16, 1894; *s.* Hervey R. and Anna (Campbell) W.; reared in town. B.S., Ia. State Coll., 1916.

Williams, Hobart Floyd, chief farm loan examiner, Mutual Benefit Life Insurance Co., Newark, N. J.

Asst. ed., Orange Judd Farmer, Chicago, 1912; sci. asst., U. S. Dept. Agr., 1913–4; asst. prof. farm manag., Univ. Neb., 1915–6; asst. to pres. and chief appraiser, Fed. Land Bank of Omaha, Neb., 1917; present position, 1918—. *b.* Albany, Mo., June 4, 1886; *s.* T. H. B. and Ophelia J. (Albin) W.; reared on farm; *m.* Anita Noncolas, Apr. 9, 1918. B.S.A., Univ. Mo., 1912; M.S., Univ. Neb., 1917. Alpha Tau Omega; Gamma Sigma Delta.

Williams, Richard Hermon, prof. an. husb., Univ. Ariz., Tucson, Ariz.

Instr. an. husb., Ohio State Univ., 1907–9; asst. prof., Univ. Minn., 1911–2; present position, 1912—. Farm manag., Pike, N. H., 1902–3; foreman Mt. Hermon Boys' Sch., Mass., 1903–4. *b.* Corbetton, Ont., Apr. 13, 1881; *s.* Mark Guy and Arabella Susan (Haslam) W.; reared on farm; *m.* Jessamine Chapman, Aug. 30, 1913. B.S.A., Toronto Univ., 1905; M.S., Univ. Ill., 1907; Ph.D., 1912. Alpha Zeta. Phi Kappa Phi.

Willis, Luther G., asst. chem., Univ. Tenn., Knoxville, Tenn.

Asst. chem., Penn. State Coll., 1910–2; present position, 1912—. *b.* S. Walpole, Mass., Dec. 19, 1886; *s.* Albert A. and Georgia F. (Cummings) W.; reared in town; *m.* Sarah E. Harrison, 1909; *c.* Albert H., Katherine. B.S., Mass. Agr. Coll., 1909.

Williston, David Augustus, prof. hort. and lands. gard., Tuskegee Inst., Ala.

Prof. agr., N. C. A.&M. Coll., Greensboro, 1898–1902; lands. gard., Tuskegee Inst., 1902–8; prof. agr. and hort., Fisk Univ., Nashville, Tenn., 1908–11; present position, 1911—. *b.* Fayetteville, N. C., 1872; *s.* Frank and Henriette W. (col.); reared on farm; *m.* Susie Bell Thomas, 1908; *c.* Thos. A. B.S.A., Cornell Univ., 1898.

Willoughby, Claude Houston, prof. an. husb. and dairying, Univ. Fla., Gainesville, Fla.

Instr. dairying, Univ. Mo., 1901; dairyman and an. husb., Ga. Exp. Sta., 1902–10; supt. Fern Crest Dairy, Sandersville, Ga., 1910–2; present position, 1912—. Officer Ga. Dairy and Live-Stock Assoc., 1904–12, Fla. State Live-Stock Assoc., 1912—. *Ed.,* dairy and live-stock dept., Southern Ruralist, 1903—. *b.* Tamaroa, Ill., Jan. 2, 1875; *s.* Cyril Latimer and Harriet Newell (Patrick) W.; reared in village and country; *m.* Gertrude Evans, 1897; *c.* Paul Lanius, Alice Elizabeth, Gertrude Mabel. B. Agr., Univ. Mo., 1901; grad. student, Univ. Wis., 1901, Cornell Univ., 1908, Geo. Peabody Coll., 1918.

Willoughby, Luther Earle, co. agrl. agt., LaCrosse, Kans.

Teach. high-sch., Winfield, Kans., 1912–4; Santa Barbara, Calif., 1914–5; princ. rural high-sch., Grainfield, 1916–7; agt. Rush Co., Kans., 1917—. *b.* Nokomis, Ill., Dec. 8, 1889; *s.* Millard Fillmore and Amanda (Manning) W.; reared on farm; *m.* Inez Brown, Aug. 21, 1913; *c.* Jean Brown. B.S., Kans. State Agr. Coll., 1912; B.S.A., 1916.

Willson, Charles Albert, prof. an. husb., Univ. Tenn., Knoxville, Tenn.

Asst. an. husb., Kans. State Agr. Coll., 1906–7; instr. an. husb., Univ. Mo., 1907–10; asst. prof. an. husb., Univ. Tenn., 1910–2; prof., 1912—. *b.* Lapeer Co., Mich., Aug. 29, 1879; *s.* John D. and Roxa M. (Dayton) W.; reared on farm; *m.* Bertha M. Wellman, Aug. 29, 1907; *c.* Margaret, Charlotte. B.S.A., Mich. Agr. Coll., 1906; M.S.A., Univ. Mo., 1910. Alpha Zeta; Phi Kappa Phi.

Wilson, Archie Dell, dir. agrl. ext. and supt. farmers' insts., Univ. Minn., University Farm, St. Paul, Minn.

Asst. agr., Univ. Minn., 1905–7; supt. farmers' insts., 1907—; dir. agrl. ext., 1909—. Fed. food administrator for Minn., 1917—. *Joint auth.:* Agriculture for Young Folks, 1910; Field Crops, 1912; Elements of Farm Practice, 1915. Dept. ed., The Farmer, St. Paul, 1908—. *b.* Hastings, Minn., Dec. 3, 1875; *s.* M. G. and Olive J. (McCarriel) W.; reared on farm; *m.* Eva W. Ward, Sept. 5, 1906; *c.* Archie Dell, Winifred Ward, Marian Louise. B.S.A., Univ. Minn., 1905. Sigma Xi; Alpha Zeta.

Wilson, Charles Scoon, comnr. of agr., Albany, N. Y.

Instr. hort., Cornell Univ., 1905–7; asst. prof., 1907–10; prof. pom., 1910–5;

present position, 1915—. N. Y. State Fair comnr., 1915—; mem. N. Y. State Defense Council, 1917—; chm. N. Y. State Food Supply Comn., 1917. Pres. Nat. Assoc. Comnrs. Agr. *b.* Hall, N. Y., Dec. 11, 1879; *s.* Thos. B. and Margaret (Scoon) W.; reared on farm; *m.* Ada Louise Miller; *c.* Margaret Scoon. B.S., Cornell Univ., 1904; M.S.A., 1905. Alpha Zeta.

Wilson, Donald, co. agrl. agt., Rush City, Minn.

Teach. agr., high-sch., Mantorville, Minn., 1914–7; Rush City, 1917–8. *b.* Stillwater, Minn., Jul. 26, 1890; *s.* Frank T. and Helen (Sawyer) W.; reared in town and on farm; *m.* Laura L. Cheney, Aug. 18, 1916; *c.* Robt. Stearns. B.S.A., Univ. Minn., 1914. Delta Upsilon.

Wilson, Earl Julius, co. agrl. agt., Hillsboro, N. Mex.

Steward and farm manag., N. Mex. Hospital for Insane, 1913–7. *b.* Kingston, N. Mex., June 8, 1885; *s.* Oliver and Marie Louisa (Head) W.; reared in mining and stock raising section; *m.* Marjorie Proctor, Sept. 27, 1914; *c.* Helen Maxine, Earl J. Jr. B.S.A., N. Mex. A.&M. Coll., 1913.

Wilson, Frederick Weston, prof. an. husb., Univ. Nev., Reno, Nev.

Asst. an. husb., in chg. farmers insts., Univ. Ariz., 1905–7; assoc. in chg. Exp. Sta. Farm, 1907–9; prof., 1907–14; present position, 1914—. Nev. representative for the Wool Div. of War Industries Bd. Supt. agrl. dept., Ariz. State Fair, 1905–9; supt. cattle dept., 1913–4. Sec. Ariz. State Cattle Growers' Assoc., 1908–12. *Assoc. ed.*, Progressive Farmer, Southwestern Stockman. *b.* Graham Co., Kans., Aug. 4, 1882; *s.* Samuel Greeley and Lucy (Mellen) W.; reared in town; *m.* Clare Cave, Sept. 1, 1906; *c.* Tom Cave, F. W. Jr., Samuel Greeley. B.S.A., Kans. State Agr. Coll., 1905; M.S., Univ. Ill., 1913. Sigma Xi.

Wilson, Guy Mitchell, prof. agrl. educ., Ia. State Coll., Ames, Ia.

Teach. rural sch., Clinton Co., Ind., 1892–4; high-sch., Alexandria, 1896–7; town supt., Chalmers, 1899–1900; North Salem, 1900–3; co. supt., Hendricks Co., 1903–8; city supt., Connersville, 1908–12; present position, 1913—. Sec.-treas. Soc. Coll. Teachers' Educ. Traveled in Europe. *Auth.:* Course of Study in Arithmetic, 1912; Motivation of School Work, 1916; The Social and Business Usage of Arithmetic, 1918. *Assoc. ed.*, Midland Schools, Des Moines, Ia. *b.* Clinton Co., Ind., Nov. 10, 1876; *s.* Edward B. and Mary E. (Norris) W.; reared on farm; *m.* Ina Hieatte, Aug. 28, 1897; *c.* Doris Mae. Grad. Ind. State Normal, 1896; A.B., Ind. Univ., 1900; M.A., 1908; Ph.D., Columbia Univ., 1918. Phi Delta Kappa.

Wilson, Harley Frost, prof. econ. ent., Univ. Wis., Madison, Wis.

With U. S. Bur. Ent., 1908–10; Ore. Agr. Coll., 1910–5; present position, 1915—. Special attention to Aphididae. *b.* Del Norte, Colo., Apr. 14, 1883; *s.* Thos. C. and Mary E. (Watson) W.; reared on farm and in city; *m.* Clara Louise McClain, Aug. 11, 1909; *c.* J. Robt. B.S., Colo. Agr. Coll., 1907; M.S., Ore. Agr. Coll., 1913. Sigma Xi; Sigma Nu; Alpha Gamma Rho.

[**Wilson, J.,** p. 313.

Wilson, James Alexander, dir. ext. serv. and state agt., Okla. A.&M. Coll., Stillwater, Okla.

Supt. high-sch., Minn., 1900–3; deputy state dairy comnr., Minn., 1904–6; princ. agrl. high-sch., Minn., 1906–8; pres. distr. agr. coll., Wis. and Okla., 1908–10; dir. Exp. Sta., 1910–3; co. and asst. state agt., Farmers' Coop. Dem. Work, U. S. Dept. Agr., 1913–5; present position, 1915—. *b.* Lake City, Minn., Aug. 29, 1872; *s.* Geo. and Helen (Phillips) W.; reared on farm; *m.* Anna Esther Smith, Mar, 6, 1906; *c.* James Gordon, Doris Marie, Geo. Norman. B.S.A., Univ. Minn., 1900.

[**Wilson, J. W.,** p. 313.

Wilson, Maud Mathes, chg. home econ. ext., Univ. Neb., Lincoln, Neb.

Instr. home econ., Univ. Neb., 1913–5; present position, 1915—. Sec. State Home Econ. Assoc. *b.* Pike Co., Ill., Jul. 6, 1883; *d.* Abraham Key and Mary Jane (Mathes) W.; reared in town. B.S., Univ. Neb., 1913. Omicron Nu.

Wilson, Meredith Chester, co. agt. leader, N. H. A.&M. Coll., Durham, N. H.

Asst. agt., Tompkins Co., N. Y., summer 1914; farm manag. dem., Vt. and N. H., 1914–6; present position, 1916—. *b.* Hebron, N. Y., Sept. 13,

1890; *s.* Henry Robt. and Caroline C. (McMillan) W.; reared on farm; *m.* Mary Ethel Denniston, Jul. 1, 1916; *c.* Meredith C. Jr. B.S., Cornell Univ., 1914.

Wilson, Milburn L., co. agt. leader, Mont. State Coll., Bozeman, Mont.

Asst. ext. work, Ia. State Coll., 1907–11; field agt. in agron., Mont. State Coll., 1911–3; agt. Custer Co., 1913–4; present position, 1914—. *b.* Atlantic, Ia., Oct. 23, 1885; *s.* John Wesley and Mary (Magee) W.; reared on farm; *m.* Ida E. Morse, Dec. 17, 1913. B.S.A., Ia. State Coll., 1907.

Wilson, R. Samuel, state agt. and asst. dir. ext., Miss. A.&M. Coll., Agricultural College, Miss.

State agt., U. S. Dept. Agr., 1909–16; present position, 1916—. Pres. Miss. State Community Congress. *b.* Chickasaw Co., Miss., Jul. 16, 1875; *s.* Wm. H. and Eleanor (Mauldin) W.; reared on farm; *m.* Fannie Maude Gunter, Dec. 12, 1911; *c.* Eleanor Frances. B.S., Miss. A.&M. Coll., 1904.

Wilson, Samuel Calhoun, head dept. agr., Sam Houston State Normal Coll., Huntsville, Tex.

Teach. in rural and consolidated schs.; supt. co. schs.; teach. summer sch., 1918, Knapp Sch. Country Life, Peabody Coll. *b.* Huntsville, Tex., Jan. 5, 1877; *s.* James Reed and Ella Louise (Calhoun) W.; reared on farm; *m.* Sammie Logan, Nov. 29, 1905; *c.* Logan, Calhoun Jr., Mary Elizabeth. Grad. Sam Houston Normal Coll.

Wilson, Thomas Burrel, farmer and fruit-grower, Hall, Ontario Co., N. Y.

Mem. N. Y. Assembly, 2 yrs.; state senator, 4 yrs. Pres. bd. of control, Agr. Exp. Sta. Geneva; mem. bd. trustees, Cornell Univ. and pres. Agr. Coll. Council. Pres. N. Y. State Fruit-Growers' Assoc.; exec. com. N. Y. State Agrl. Soc.; pres. N. Y. State Bean Growers' Assoc.; pres. Assoc. for Adv. Agrl. Educ. Traveled in British Isles, 1891. *b.* Hall, N. Y., Dec. 12, 1852; *s.* John Crosier and Catherine Ann (Burrel) W.; reared on farm; *m.* Margaret A. Scoon, Feb. 28, 1877; *c.* Chas. Scoon, John Crosier, Mary Anna.

Wilson, Warren Hugh, minister, 156 Fifth Ave., New York City

Ordained Presbyterian minister, 1894; pastor, Christ's Church, Quaker Hill, N. Y., 1894–9; Arlington Ave. Church, Brooklyn, 1899–1908; supt. Dept. Church and Country Life, Bd. Home Missions, 1908—; assoc. prof. educ., Teachers' Coll., Columbia Univ., 1914—. Mem. Church and Country Life Com., Fed. Council of Churches of Christ in Am. *Auth.:* Quaker Hill, 1907; The Church of the Open Country, 1911; The Evolution of the Country Community, 1912; The Church at the Center, 1914; The Second Missionary Adventure, 1915. *b.* Tidioute, Pa., May 1, 1867; *s.* John S. and Elizabeth (Hamilton) W.; reared on farm and in city; *m.* Pauline Lane; *c.* Margaret M., Julius L., John A., Agnes E. A.B., Oberlin Coll., 1890; B.D., Union Theol. Sem., 1894; Ph.D., Columbia Univ., 1908; D.D., Washington Coll., Tenn., 1912; D.D., Oberlin Coll., 1915.

Wilson, Wilford M., prof. meteorology, State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Lect., Cornell Univ., 1906; instr., 1907–10; prof., 1910—. *b.* Espyville, Pa., Jan. 24, 1860; *s.* Cyrus and Katherine (Mason) W.; reared in village; *m.* Winifred M. Hatch, Apr. 9, 1892; *c.* Wendell H., Kenneth M. M.D., Memphis Hospital Med. Coll., 1895. Phi Gamma Delta.

Wilson, Wilford Ross, co. agrl. agt., Woodsville, N. H.

Instr. dairying, N. H. A.&M. Coll., 1912–6; asst. prof., 1916–8; co. agt., 1918—. *b.* Espyville, Pa., Apr. 9, 1888; *s.* A. J. and Lina (Wilson) W.; reared on farm; *m.* Olive T. Coate, May 9, 1917. B.S.A., Cornell Univ., 1912. Alpha Tau Alpha.

Wilson, Willis Ray, clergyman, Prophetstown, Ill.

Special attention to the rural church. *b.* Nora, Ill., Aug. 27, 1880; *s.* Robt. M. and Anna E. (Dixon) W.; reared in village; *m.* Alma L. Haas, Dec. 25, 1902; *c.* Ray, Phyllis, Robt., Paul, Donald. Student Northwestern Univ., Garrett Biblical Inst., Drew Theol. Sem.

Winegar, Andrew Jesse, co. agrl. agt., Knoxville, Tenn.

b. Church Hill, Tenn., Aug. 13, 1891; *s.* Andrew Jackson and Sarah E. (Grim)

W.; reared on farm; *m.* Anna Evans, Jul. 29, 1917. B.A., Carson & Newman Coll., Jefferson City, Tenn., 1914; B.S.A., Univ. Tenn., 1916. Phi Kappa Phi; Alpha Zeta.

Wing, DeWitt Cosgrove, assoc. ed. The Breeders' Gazette, 542 S. Dearborn St., Chicago, Ill.

Farmer, Cooper Co., Mo., 1892–7; Wayne Co., Ill., to present. Invest. livestock, Europe, 1910, British Isles, 1913. *b.* LaMine, Mo., Feb. 16, 1878; *s.* DeWitt Clinton and Margaret Elisabeth (Kueckelhan) W.; reared on farm. Student Univ. Ill.

Wing, Henry Hiram, prof. an. husb., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Asst. dir., N. Y. Exp. Sta., 1882–4; instr. agr. and farm supt., Univ. Neb., 1884–8; deputy dir. and sec., Cornell Univ. Exp. Sta., 1888–94; asst. prof. an. ind. and dairy husb., 1891–1903; prof. an. husb., 1903—. Fellow A. A. A. S. Sec. Neb. Dairymen's Assoc., 1885–8; pres. N. Y. State Dairymen's Assoc., 1909. *Auth.:* Milk and Its Products, 1897. *b.* New York City, Nov. 29, 1859; *s.* Phineas R. and Mary (Sands) W.; reared on farm; *m.* Lilian Watson, Jul. 16, 1885; *c.* Lois Watson, Paul Watson, Ellen Watson. B.Agr., Cornell Univ., 1881; M.S.A., 1891. Sigma Xi.

Winkjer, Joel G., dairy husb., Bur. An. Ind., U. S. Dept. Agr., Washington, D. C.

Minn. creamery insp., 1905–7; asst. dairyman, U. S. Dept. Agr., 1907–11; dairy and food comnr., Minn., 1911–5; present position, 1915—. *b.* Moe, Douglas Co., Minn., Dec. 31, 1870; *s.* Gunder T. and Karen Anna (Helle) W.; reared on farm; *m.* Helga Elizabeth Eggen, Aug. 7, 1898; *c.* Guy Archibald, Thelma Halsan. Student Univ. Minn.

Winkler, Charles Herman, prof. agrl. voc. educ., W. Va. Univ., and state dir. voc. agr., Morgantown, W. Va.

Instr. agrl. educ., Univ. Tex., 1909–16; teach. agr. and educ., Geo. Peabody Coll., summer 1916; asst. prof. agrl. educ., W. Va. Univ., 1916–7; present position, 1917—. *b.* The Grove, Tex., Dec. 5, 1878; *s.* Chas. A. and Katherine (Huber) W.; reared on farm; *m.* Adeline Wild; *c.* Bruno Oscar, Max Karl, Chas. Herman Jr. B.S., Univ. Tex., 1904; M.A., 1914; Ph.D., Univ. Mo., 1916. Sigma Xi; Phi Delta Kappa; Sigma Kappa Zeta.

Winsor, Luther M., irrig. specialist, Utah Agr. Coll., Logan, Utah.

Agrl. adv., ext. div., Utah Agr. Coll., 1911–2; co. agt., San Luis Valley, Colo., 1912–3; present position, 1913—. *b.* Hebron, Utah, Jan. 21, 1884; *s.* Anson Perry and Sara A. (Terry) W.; reared on farm; *m.* Beatrice Snow, 1914; *c.* Pauline. B.S., Utah Agr. Coll., 1911. Gamma Sigma Delta.

Winter, Wilber McKelvey, specialist in transportation, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

b. Grand Forks, N. D., Dec. 30, 1885; *s.* Jacob Blakeslee and Lida (McKelvey) W.; reared in town and country; *m.* Gladys Potter Hosig, May 16, 1914. Student Univ. Minn., 1903–5.

Winters, Rhett Youmans, plant-breeding agron., N. C. Exp. Sta., W. Raleigh, N. C.

Asst. bot., Fla. Exp. Sta., 1906–9; asst. plant-breeding, Cornell Univ., 1911; instr., 1912; present position, 1913—. *b.* Society Hill, S. C., Mar. 9, 1886; *s.* David L. and Dora (Sompayrac) W.; reared on farm; *m.* Elizabeth Washington Knox, June 18, 1917; *c.* Elsa Smedes. B.S., Clemson Agr. Coll., 1906; M.S., Univ. Fla., 1909; Ph.D., Cornell Univ., 1911. Sigma Xi.

Winzenburg, Louis Marshall, co. club leader, Lewistown, Mont.

Princ. high-sch., Kuna, Ida., 1912–3; deputy state seed insp. for Ida., 1913; instr. agr., Edmonds, Wash., 1913–4; Coulee City, Wash., 1914–5; Sandpoint, Ida., 1915–8; agt. Powell Co., Mont., 1918. *b.* Sedalia, Mo., Aug. 12, 1885; *s.* A. W. and Angeline (Marshall) W.; reared on farm; *m.* Elizabeth Rockwell, Aug. 17, 1914. B.S.A., Univ. Mo., 1911.

Wise, Furman Bryant, specialist in grain (rice) standardization, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

Farmer, S. C., 1908–10. *b.* Hyman, S. C., Feb. 6, 1888; *s.* Cornelius McDuffie and Elizabeth Caroline (Myers) W.; reared on farm; *m.* Cordelia Eleanor Worthington, Jul. 15, 1913. B.S., Clemson Agr. Coll., 1908; M.S., Univ. Wis., 1911.

Wise, Leslie O., co. agrl. agt., Dewitt, Ia.
b. Page Co., Ia., Jul. 20, 1878; *s.* John W. and Neva (Reynolds) W.; reared on farm; *m.* Floy M. Foor, Sept. 26, 1907; *c.* Mildred, Donald, Mabel, Leslie Jr. B.S., Ia. State Coll., 1913. Alpha Gamma Rho.

Wise, Lewis W., co. agrl. agt., Watseka, Ill.
b. Cerro Gordo, Ill., Dec. 28, 1875; *s.* Jacob and Elizabeth (Kuns) W.; reared on farm; *m.* Jane Parker Bowdle, Feb. 16, 1905; *c.* Margaret, Harriet Bowdle. B.S.A., Univ. Ill., 1904. Alpha Zeta.

Wittkorn, Thomas Henry, ed. Practical Farmer, Philadelphia, Pa.
Mem. Penn. State Bd. of Agr. Pres. Del. Co. Agrl. Soc. *b.* Philadelphia, Pa., Nov. 17, 1883; *s.* Otto G. and Cecilia (Simpson) W.; reared on farm; *m.* Lidie West, 1910; *c.* Thos. H. Jr., E. Barnard. B.S.E., Univ. Penn., 1906.

Woglum, Russell Sage, ent. asst., Bur. Ent., U. S. Dept. Agr., Alhambra, Calif.
Instr. ent., N. C. A.&M. Coll., 1905–7; present position, 1907—. Traveled in Orient in search of natural enemies of citrus white fly. *b.* North Bay, N. Y., Aug. 3, 1882; *s.* Cornelius and Ella (Godfrey) W.; reared on farm and in city; *m.* Mabel Frommer Clayton, Apr. 11, 1912. A.B., Cornell Univ., 1904; M.S.A., 1905. Sigma Xi; Gamma Alpha.

Wolf, George P., co. agrl. agt., Wahpeton, N. D.
Princ. grade sch., Randen Lake, Wis., 1904–5; instr. high-sch., Grand Rapids, 1910–1; princ. high-sch., Menomonie, 1911–2; instr. chem. and agr., State Sch. Sci., Wahpeton, N. D., 1912–6; princ. Dunn Co. Sch. Agr., Wis., 1917; agt. Richland Co., N. D., 1918—. *b.* Wis., Mar. 4, 1883; *s.* Paul and Anna (Wiesner) W,; reared on farm; *m.* Frances Mayers, June 18, 1914; *c.* Geo. P. Jr. B.A., Univ. Wis., 1910; M.A., 1912; B.S., 1917.

Wolf, Paul Macy, co. agrl. agt., Audubon, Ia.
Supt. in chg. field expts., Ia. State Coll., 1917. *b.* Dayton, O., Jan. 30, 1888; *s.* John Edward and Anna (Macy) W.; reared on farm and in city. A.B., Miami Univ., 1913; B.S., Ia. State Coll., 1915. Delta Kappa Epsilon; Phi Kappa Phi; Alpha Zeta; Phi Lambda Upsilon.

Wolfe, Lawrence S., co. agrl. agt., Orangeburg, S. C.
Pres. and manag. Orangeburg Coop. Creamery. Farmer. *Assoc ed.*, Carolina Farmer and Stockman. *b.* Orangeburg, S. C., Oct. 10, 1887; *s.* L. S. and Lottie (Simmons) W.; reared in city; *m.* Frances Bettis, Nov. 16, 1909; *c.* Frances, Mary, Lawrence S. Jr. B.S., Clemson Agr. Coll., 1907.

Wolff, William Hy., asst. hort., N. H. Exp. Sta., Durham, N. H.
In commercial nursery work with Hoopes Bros. & Thomas Co., West Chester, Pa., 1906–10; present position, 1910—. *b.* Hamilton, Bermuda, Dec. 24, 1880; *s.* Edward Wm. and Annie Elizabeth (James) W.; *m.* Charlotte A. Tower, 1913; *c.* Emily T., Mary. B.S., Penn. State Coll., 1906; M.S., 1911. Alpha Zeta.

Woll, Fritz Wilhelm, prof. an. nutr., Univ. Calif., Davis, Calif.
Second asst. chem., Wis. Exp. Sta., 1887–90; asst. chem., 1890–7; chem., 1897–1913; asst. prof. agrl. chem., Univ. Wis., 1893–4; assoc. prof., 1904–6; prof., 1906–13; present position, 1913—. Pres. Assoc. Official Agrl. Chems., 1910–1. Visited Scandinavia for U. S. Dept. Agr., 1896; rep. Univ. Wis. at Centennial Celebration Univ. Christiania, 1911. *Auth.:* Grotenfelt, Modern Dairy Practice (Am. ed.) 1894, 3d ed. 1910; A Book on Silage, 1895, rev. ed. 1900; A Handbook for Farmers and Dairymen, 1897, 6th ed., 1914; (with Farrington) Testing Milk and Its Products, 1897, 24th ed. 1918; Productive Feeding of Farm Animals, 1915; Feed Manual and Note Book, 1917. *b.* Bergen, Norway, May 23, 1865 (naturalized 1888); *s.* Carsten L. and Mathilde Helene (Krum) W.; reared in town; *m.* Helene Walloe, May 16, 1891; *c.* Margaret Louise, Carsten Lindal, Frederick Krum. B.S., Univ. Christiania, 1882; M.S., Univ. Wis., 1886; Ph.D., 1904.

Wood, Casper A., assoc. prof. agron., Tex. A.&M. Coll., College Station, Tex.
Teach. sci. and agr., Centerville, Ala., 1911–2; instr. soils, Tex. A. & M. Coll., 1912–4; asst. prof. agron., 1914–5; assoc. prof., 1915—. *b.* Waseca, Minn., Feb. 2, 1879; *s.* Geo. H. and Jennie M. (Deverell) W.; reared on farm; *m.*

Lottie Belle Snyder, Aug. 16, 1905; *c.* Geo. Alanson. B.S., Kans. State Agr. Coll., 1911; M.S., Tex. A.& M. Coll., 1915.

Wood, Diller Clement, asst. prof. farm manag., Univ. Mont., Bozeman, Mont.

Asst. prof. farm manag., Univ. Mont., 1915–6; farm manag. dem., Univ. Mo., 1916–8; present position, 1918—. Sec. Mo. Farm Manag. Assoc., 1915–8. Traveled in Europe. *b.* Quincy, Ill., Apr. 28, 1883; *s.* Benjamin F. and Jewel E. (Turner) W.; reared in town; *m.* Romaine Roach, Aug. 29, 1917. B.S.A., Univ. Mo., 1915. Sigma Nu.

Wood, Leland A., co. agrl. agt., St. Johnsbury, Vt.

Asst., Off. Farm Manag., U. S. Dept. Agr., June-Sept., 1915; agt. Caledonia Co., Vt., 1915—. *b.* W. Winfield, N. Y., June 6, 1894; *s.* Don J. and Florence L. (Brown) W.; reared on farm. B.S., Cornell Univ., 1915. Sigma Phi Sigma.

Woodbury, Charles Goodrich, dir. Exp. Sta., Purdue Univ., LaFayette, Ind.

Asst. hort., Purdue Exp. Sta., 1906–8; assoc., 1908; asst. prof. hort., Purdue Univ., 1909–11; head dept., 1911–7; dir. Exp. Sta., 1917—. Sec. and vice-pres. Ind. Hort. Soc.; sec. Ind. Apple Show Com. *b.* Portland, Mich., Apr. 30, 1884; *s.* Chester Downer and May (Goodrich) W.; reared in town and country; *m.* Marion Benjamin, June 23, 1908; *c.* Barbara Anne, Richard Benjamin. B.S., Mich. Agr. Coll., 1904; M.S., 1906. Sigma Xi; Alpha Zeta; Alpha Gamma Rho.

Woods, Albert Fred, pres. Md. State Coll. Agr., College Park, Md.

Asst. bot., Univ. Neb., 1890–3; asst. chief and physiologist, Div. Veg. Path., U. S. Dept. Agr., 1894–9; chief Div. Veg. Physiology and Path., 1899–1900; chief path. and physiologist and asst. chief Bur. Plant Ind., 1900–10; dean and dir. agr. and for., Univ. Minn., 1910–7; present position, 1917—. Fellow A. A. A. S. U. S. del. to Inst. Agr., Rome, 1905; Inter. Bot. Congress, Vienna, 1905. Chm. com. on agr., Nat. Research Council; chm. com. on agr., Md. State Council of Defense. *Auth.:* Flora of Nebraska, 1894. *b.* Belvidere, Ill., Dec. 25, 1866; *s.* Fred M. and Eliza O. (Eddy) W.; reared on farm; *m.* Bertha Gerneaux Davis, June 1, 1898; *c.* Mark Winton, Winton DeRuyter. B.Sc., Univ. Neb., 1890; A.M., 1892; D.Agr., 1913. Alpha Zeta.

Woods, Charles Dayton, dir. Me. Exp. Sta., Orono, Me.

Asst. chem., Wesley Univ., 1880–3; teach. sci., Wesleyan Acad., Wilbraham, Mass., 1883–8; chem. and vice-dir. Storrs Exp. Sta., 1888–96; food expert, U. S. Dept. Agr., 1894–1908; prof. agr., Univ. Me., 1896–1903; dir. Exp. Sta., 1896—. Fellow A. A. A. S. *b.* Brooks, Me., Sept. 11, 1856; *s.* Henry Jordam and Maria N. (Colcord) W.; reared in city; *m.* Mary Morgan, June 1, 1882; *c.* Harry Morgan, Wm. Colcord. B.S., Wesleyan Univ., 1880; Sc.D., Univ. Me., 1905. Phi Beta Kappa; Phi Kappa Phi; Chi Psi.

Woodward, Edwin Garver, prof. dairying, Wash. State Coll., Pullman, Wash.

Asst. dairying, Univ. Mo., 1911–3; adj. prof., Univ. Neb., 1913–4; asst. prof., 1914–5; assoc. prof., 1916–7; prof., 1917; prof., Univ. Nev., 1917; present position, 1918—. *Assoc. ed.,* Journal of Dairy Science. *b.* Brunswick, Mo., Apr. 7, 1890; *s.* Joseph and Agnes (Smutz) W.; reared on farm; *m.* Lucille Mathews, Oct. 3, 1913; *c.* Ruth. B.S., Univ. Mo., 1911; M.S., 1913. Sigma Xi; Alpha Zeta.

Woodward, Karl Wilson, for., N. H. A.&M. Coll., Durham, N. H.

With U. S. For. Serv., 1904–15; present position, 1915—. *b.* Detroit, Mich., Jul. 24, 1881; *s.* R. S. and Martha (Bond) W.; reared in town; *m.* Olive Smith, Sept. 11, 1909. A.B., Cornell Univ., 1904; M.F., Yale Univ., 1904.

Wooton, Elmer Ottis, agrst., Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.

Biol. and bot., N. Mex. A.&M. Coll., 1890–6, 1898–1911; special agt., U. S. Dept. Agr., summers 1900–2, 1904, 1909–10; present position, 1911. Fellow A. A. A. S. *b.* Kokomo, Ind., Sept. 19, 1865; *s.* Wm. S. and Docia (Strattan) W.; reared in city and country; *m.* Itasca Frame, Aug. 19, 1891; *c.* Esther. B.S., Earlham Coll., Richmond, Ind., 1889; A.M., 1896; grad. student, Columbia Univ., 1896–8.

Working, Daniel Webster, agrst., States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Ed. Colo. Farmer and Live-Stock Journal, 1889–91; ed. Longmont, Colo., Times, 1892–3; sec. Colo. State Bd. Agr. and Agr. Coll., 1893–7; dept. ed., Farmer's Voice, Chicago, 1898–9; chief editorial writer, American Grange Bull., 1902–6; co. supt. schs., Arapahoe Co., Colo., 1905–7; supt. agrl. ext., W. Va. Univ., 1907–11; expert and agrst., Off. Farm Manag., 1911–4; agrst., Off. Ext. Work North and West, 1914—. *b.* Belle Plaine, Minn., May 9, 1862; *s.* D. W. and Elizabeth (Gunderson) W.; reared on farm; *m.* Ella Grace Booth, Nov. 9, 1892; *c.* Holbrook, Earl Booth, Elmer Joseph. B.Sc., Kans. State Agr. Coll., 1888; A.M., Univ. Denver, 1907.

Works, George Alan, prof. rural educ., State Coll. Agr., Cornell Univ., Ithaca, N. Y.

Princ. high-sch., Menomonie, Wis., 1904–7; supt. public schs., 1907–10; instr. agrl. educ., Univ. Wis., 1912–3; asst. prof. agrl. educ., Univ. Minn., 1913–4; present position, 1914—. *b.* Augusta, Wis., May 14, 1877; *s.* Obadiah and Clara E. (Perry) W.; reared on farm; *m.* Saidee B. Coerper; *c.* Helen, Janet, Ruth Mary, Geo. Alan Jr. Ph.B., Univ. Wis., 1904; M.S.A., 1912. Phi Beta Kappa; Phi Delta Kappa; Alpha Zeta; Delta Upsilon.

Worsham, William Archer Jr., prof. agrl. chem., Univ. Ga., Athens, Ga.

Tutor, Univ. Ga., 1903–4; teach., Gordon Inst., 1904–5; Ga. Military Acad., 1905–7; teaching fellow, Harvard Univ., 1908–9; present position, 1910—. Fellow A. A. A. S. *b.* Monroe Co., Ga., Mar. 9, 1878; *s.* W. A. and Sarah Emma (Zellner) W.; reared on farm. B.S., Univ. Ga., 1903; A.M., Harvard Univ., 1908. Sigma Nu.

Worst, John H., ex. pres. N. D. Agr. Coll., Agricultural College, N. D. (Los Angeles.)

Supt. schs., Emmons Co., N. D., 1883–9; state senator, 1889–94; lieut.-gov., 1895–7; pres. N. D. Agr. Coll., 1895–1917. *b.* Ashland Co., O., Dec. 23, 1850; *s.* Geo. and Margaret (Martin) W.; *m.* Susan Wohlgamuth, Oct. 1872. LL.D., Ashland Univ.

Worthen, Edmund Louis, assoc. prof. agron., Penn. State Coll., State College, Pa.

With Ill. Soil Survey, 1904–6; sci. asst., U. S. Bur. Soils, 1906–9; with N. C. Dept. Agr., 1909–12; present position, 1912—. *b.* Wilcox Twp., Ill., Oct. 5, 1882; *s.* Geo. Byron and Mary (Bedell) W.; reared on farm; *m.* Xenia Woolman, Nov. 5, 1908; *c.* Rachel Daura, Albert Woolman, Elizabeth Jane. B.S., Univ. Ill., 1904; M.S., Cornell Univ., 1908. Alpha Zeta.

Worthington, William, minister, Deer Park, Wash.

Princ. Puget Sound Acad., 1905–6; teach. econ., Whitman Coll., 1907–10. *Assoc. ed.,* Encyclopedia of Practical Horticulture, 1914. *b.* Grove Lake, Minn., Jul. 13, 1871; *s.* Leslie and Sarah Smith (Lewis) W.; reared on farm; *m.* Carrie Amelia Palmer, Aug. 28, 1901; *c.* Leora, Helen. A.B., Whitman Coll., 1900; B.D., Chicago Theol. Sem., 1904.

Worthington, Willits Reeve, co. agrl. agt., Bluefield, W. Va.

Clerk distr. court, Morton Co., Kans., 1901–3; princ. Friendswood Acad., Tex., 1908–10; agt. Mercer Co., W. Va., 1915—. *b.* Philadelphia, Pa., Dec. 7, 1872; *s.* Samuel and Sarah Catherine (Reeve) W.; reared on farm; *m.* Elizabeth Traver, Mar. 3, 1903; *c.* Monroe, Josephine, Kathryn. B.S., Kans. State Agr. Coll., 1915.

Wray, John Dudley, state and U. S. farm makers' club agt., Agr. and Tech. Coll., Greensboro, N. C.

Formerly teach. agr., Tuskegee Inst., Agr. and Tech. Coll., Greensboro and Lincoln Inst., Ky. *b.* Roxboro, N. C., Dec. 10, 1877; *s.* Sidney and Sarah W. (col.); reared on farm; *m.* Annie Bell Harris, 1909; *c.* John D. Jr., Richard H., Washington D., Thelma Merline. B.Agr., Agr. and Tech. Coll., 1909.

Wright, Arthur Davis, superv. negro rural schs. of Va., Richmond, Va.

Supt. schs., Fredericksburg, Va. and Henrico Co., Va. Mem. Moseley Comn. to visit England, 1908. *b.* Boston, Mass., Mar. 24, 1885; *s.* (adopted) John and Margaret (Snell) W.; reared on farm; *m.* Mamye Morris Rowe, Oct. 25, 1910; *c.* Mary Morris, Margaret Elizabeth. B.A., M.A., Coll. of William and Mary, 1904. Phi Beta Kappa; Theta Delta Chi.

Wright, James Kelly, lect., Mo. State Bd. Agr., Columbia, Mo.

Teach. math. and sci., Columbia Normal

Acad., 1905–7; Univ. high-sch., 1908; co. comnr. schs. and co. supt. schs., Boone Co., 1907–11; lect., Mo. State Bd. Agr., 1911—. *b.* Boone Co., Mo., Oct. 25, 1878; *s.* Paul M. and Rebecca E. (Haden) W.; reared on farm; *m.* Nancy G. Fish, Dec. 24, 1905; *c.* Esther Rebecca, J. Kelly Jr., Wm. Edmondson, Paul Morris. A.B., Columbia Normal Acad., 1902; B.S.A., Univ. Mo., 1909. Alpha Zeta.

Wright, Lewis H., asst. prof. physiology and pharmacology, Tex. A. & M. Coll., College Station, Tex.

Instr. med., Cornell Univ., 1915–6; present position, 1916—. *b.* Logan, N. D., Jul. 9, 1894; *s.* Lewis H. and Agnes J. (Gilmour) W.; reared on farm and in town; *m.* Alice C. Collins, Aug. 9, 1915; *c.* Lewis David. D.V.M., Cornell Univ., 1914. Omega Tau Sigma.

Wright, Lorenzo H., farmer, 5603 Lowell Ave., Indianapolis, Ind.

Asst. chem., Ind. State Normal, 1893–4; head sci. dept., high-sch., Frankfort, Ind., 1885–6. Master Ind. State Grange; chm. Ind. State Highway Comn. *b.* Jonesville, Ind., Dec. 4, 1868; *s.* Austin B. and Ruth M. (Shumway) W.; reared on farm; *m.* Vinnie R. Thompson, Dec. 25, 1894; *c.* Fern, Mabelle. Grad. Ind. State Normal, 1894.

Wright, Sewall, senior an. husb., Bur. An. Ind., U. S. Dept. Agr., Washington, D. C.

b. Melrose, Mass., Dec. 21, 1889; *s.* Philip G. and Elizabeth Quincy (Sewall) W.; reared in city. B.S., Lombard Coll., 1911; M.S., Univ. Ill., 1912; S.D., Harvard Univ., 1915.

Wright, Wilbur William, co. agrl. agt., Eureka, Kans.

b. Washington Co., Pa., Sept. 11, 1890; *s.* James Whitten and Nancy Emeline (Whitely) W.; reared on farm. B.S., Kans. State Agr. Coll., 1917. Sigma Nu; Alpha Zeta.

Wright, William Harmon, asst. prof. agrl. bact., Univ. Wis., Madison, Wis.

Asst. bact., Univ. Wis., 1909–11; instr., 1911–5; asst. prof. agrl. bact., 1916—. *b.* Bartholomew Co., Ind., Jul. 8, 1885; *s.* John Wynn and Elizabeth (Harmon) W.; reared on farm; *m.* Edna Fisher, June 11, 1908; *c.* Alice Elizabeth, John Fisher. B.S., Purdue Univ., 1908; M.S., Univ. Wis., 1909. Sigma Xi.

Wright, William Joseph, dir. N. Y. State Sch. Agr., Alfred, N. Y.

Engaged in practical hort., Pacific Coast, 1904–7; asst. to pres., Mich. Agr. Coll., 1907–9; asst. prof. hort., Penn. State Coll., 1909–12; present position, 1912—. *Auth.:* Greenhouses, Their Construction and Equipment, 1917. *Assoc. ed.,* National Stockman and Farmer. *b.* Plainfield, Mich., June 6, 1881; *s.* Frank L. and Emma J. (Braley) W.; reared on farm; *m.* Gladys Mapes, Aug. 4, 1904. B.S., Mich. Agr. Coll., 1904; M.S., Penn. State Coll., 1912. Alpha Zeta.

Wylie, Charles Elmer, asst. prof. dairying, Univ. Tenn., Knoxville, Tenn.

Asst. dairying, Univ. Tenn., 1916–7; asst. prof., 1917—. *b.* Cincinnati, O., Apr. 30, 1890; *s.* Frank S. and Cora (Jones) W.; reared on farm; *m.* Naomi Marie Henry, June 13, 1918. B.S.A., Ohio State Univ., 1915; A.M., Univ. Mo., 1916. Gamma Alpha.

Y

Yeager, William G., co. agrl. agt., Lexington, N. C.

Manag. fruit plantation, Falfurrias, Tex., 1909–10; manag. orchard, Medford, Ore., 1911–2; hort., Markham, Va., 1914–5; co. agt., 1916—. *b.* Sprankle Mills, Pa., Oct. 1, 1882; *s.* John Geo. and Araminta L. (Thompson) Y.; reared on farm; *m.* Edith Grace Rasor, Nov. 10, 1915; *c.* Eunice Hope. B.S., Ohio State Univ., 1908.

Yerkes, Arnold Phipps, asst. agrst., Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.

b. Davisville, Pa., Feb. 8, 1885; *s.* Arthur W. and Margaret (Hallowell) Y.; reared on farm; *m.* Arline Osgood, June 11, 1907 (d. 1911); 2d, Rebecca Moon, Sept. 2, 1914; *c.* Carolyn Margaret.

Yoder, Peter A., sugar-cane tech., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Assoc. prof. chem. and assoc. chem. Exp. Sta., Utah Agr. Coll., 1901–5; prof. chem. and dir. Exp. Sta., 1905–7·

research chem., La. Sugar Exp. Sta., 1908–10; asst. chem., U. S. Bur. Chem., 1910–3; sugar cane tech., U. S. Bur. Plant Ind., 1913—. Traveled in Europe, 1899–1901; Orient, Australia, New Zealand, India, Egypt, Europe, 1907–8. *b.* LaGrange Co., Ind., Aug. 21, 1867; *s.* Reuben and Harriet (Riehl) Y.; reared on farm; *m.* Amelia A. Vance, Jul. 25, 1894. A.B., Ind. Univ., 1894; A.M., 1896; Ph.D., Univ. Goettingen, 1901.

Yoke, John Jonathan, asst. prof. an. husb. and acting head dept., W. Va. Univ., Morgantown, W. Va.

Instr. an. husb., Univ. Ill., 1914–5; instr. an. husb. and asst. Exp. Sta., W. Va. Univ., 1915–6; asst. prof. horse and swine husb., 1916–7; present position, 1917—. *b.* Acton, Ind., Jul. 11, 1878; *s.* Jonathan and Isabelle (Moore) Y.; reared on farm. B.S.A., Univ. Ill., 1914.

Yothers, Merrill Arthur, specialist in apple insect invests., U. S. Dept. Agr., Medford, Ore.

Asst. and instr. ent., Mich. Agr. Coll., 1908–10; asst. ent., Wash. State Coll., 1910–7; present position, 1917—. *b.* Ashton, Ill., Dec. 18, 1883; *s.* Levi and Arthusa (Wood) Y.; reared on farm; *m.* Beatrice Marie Washburn, Apr. 5, 1908; *c.* Lewis Arthur, Laura Belle, Robt. Austin, Beatrice Caroline, Cynthia Maude, Howard Everett. B.S., Univ. Ida., 1907; M.S., Wash. State Coll., 1915.

Young, Clifton Richard, co. agrl. agt., Dakota City, Neb.

b. Henry Co., Ill., Jul. 8, 1877; *s.* Adam and Mary E. (Hill) Y.; reared on farm; *m.* Bessie I. Carr, May 22, 1910; *c.* Candace Mary, Catherine Elizabeth. B.S.A., Ia. State Coll., 1909.

Young, Duncan Francis, assoc. ed. Gulf States Farmer, 5316 Camp St., New Orleans, La.

Auth.: Thoughts in Verse, 1902; Behind the Grille, 1903; The Fiction Writer's Workshop, 1912. *Ed.* and manag., Evening News, New Orleans. *b.* Covington, La., Jul. 20, 1862; *s.* Benjamin Franklin and Martha Ann (Edwards) Y.; reared on farm; *m.* Zilla Edwards; *c.* Franklyn Parker.

Young, H. Earl, sec. Ill. Farmers' Inst., State House, Springfield, Ill.

Sec. Ill. Farmers' Inst., 1917—; dir., 1909–17. Superv. dairy ext., for U. S. Dept. Agr., 1916–7. Dir. and sec. Nat. Alfalfa Growers' Assoc. *Ed.,* Farmers' Review, Chicago, 1908–15; Farmers' Guide, Huntington, Ill., 1902–8. Farmer, Mich., 1902—. *b.* Mason, Mich., Jul. 5, 1879; *s.* Robt. R. and Laura (Miner) Y.; reared on farm; *m.* Mabel McCormick, Dec. 30, 1903; *c.* Marian Elizabeth, Robt. McCormick. B.S., Mich. Agr. Coll., 1902.

Young, Horace J., co. agt. superv., Univ. Neb., Lincoln, Neb.

Instr. agron., Univ. Neb., 1911–2; adj. prof., 1912–3; asst. prof., 1913–7; present position, 1917—. Traveled 3 mos. in Europe. studying agr. *Auth.:* (with Barker) Soils Laboratory Manual, 1915. *b.* N. Bend, Neb., Mar. 10, 1888; *s.* S. W. and Anna E. (Watson) Y.; reared on farm; *m.* Cleo Myrtle Cather, Aug. 1, 1916. B.S.A., Univ. Neb., 1911. Alpha Zeta.

Young, Paul Rexford, teach. agr., Highland, N. Y.

Asst. teach. agr., high-sch., Spencer, N. Y., 1915–6; asst. hort., State Sch. Agr., Delhi, 1916–7; princ. and teach. agr., Bethlehem Sch. Agr., Delmar, N. Y., 1917–8. *b.* Auburn, N. Y., Jan. 12, 1895; *s.* Geo. K. and Minnie L. (Quick) Y.; reared in city; *m.* Hazel B. Jones, Sept. 16, 1916; *c.* Richard Keith. B.S., Cornell Univ., 1916.

Young, Robert Armstrong, bot. asst., Bur. Plant Ind., U. S. Dept. Agr., Washington, D. C.

Florist, Ohio State Univ., 1906–7. Visited Hawaii to invest. taro ind., 1913. *b.* Cleveland, O., Oct. 30, 1876; *s.* John Lawrence and Kate P. (Thompson) Y.; reared in city and on farm; *m.* Ida Marie Renkel, Apr. 4, 1904. B.Sc., Ohio State Univ., 1906.

Youngblood, Bonney, dir. Tex. Exp. Sta., College Station, Tex.

Manag. Smith Ranch, Grayson Co., Tex., 1903; princ. high-sch., Henderson, Tex., 1903–5; Mineola, 1905–6; supt. schs., Pauls Valley, Okla., 1906–7; asst. agr., Off. Farm Manag., U. S. Dept. Agr., 1907–11; present position, 1911—. Served in Spanish-American War. *b.* Milano, Tex., Jul. 31, 1881; *s.* Thos. Bunyan and Mattie (Sivils) Y.; reared on

farm; *m.* Lotus Shamburger, May 16, 1907. B.S.A., Tex. A. & M. Coll., 1902; M.S., 1907.

Z

Zavitz, Charles Ambrose, prof. field husb. and dir. field exps., Ont. Agr. Coll., Guelph, Ont.

Vice-pres. Canadian Seed Growers' Assoc.; sec. Ont. Agrl. and Exp. Union; vice-pres. Am. Soc. Agron. Dir. coop. exps. in agr. in Ont. Del. to 2d Inter. Convention on Hybridization and Plant-Breeding, New York, 1902; 3d, London, 1906. *b.* Coldstream, Ont., Aug. 25, 1863; *s.* Daniel and Susan W. (Vail) Z.; reared on farm; *m.* Rebecca E. Wilson, June 3, 1900; *c.* Raymond W. B.S.A., Toronto Univ., 1888; D.Sc., 1916.

Zechiel, Willard R., co. agrl. agt., Warsaw, Ind.

b. Culver, Ind., Apr. 25, 1886; *s.* Henry and Lazetta (White) Z.; reared on farm; *m.* Caroline Barber, Oct. 12, 1911; *c.* Robt. B.S.A., Purdue Univ., 1911.

Zentmire, D. Harold, co. agrl. agt., Marengo, Ga.

Student asst. farm crops, Ia. State Coll., 1911–2; instr. farm crops, soils and farm manag., 1912–6; asst. prof., 1916–8; agrl. agt., Iowa Co., 1918—. Asst. sec. Ia. Corn and Small Grain Growers' Assoc., 1912–8. *b.* W. Point, Ia., Oct. 31, 1889; *s.* James H. and Emma (Sloan) Z.; reared on farm; *m.* Naomi Margreiter, Aug. 31, 1916. B.S., Ia. State Coll., 1913.

Zimmer, Elmer R., co. agrl. agt., Owego, N. Y.

Stockman, Washington Mills, N. Y., 1910–1; asst. an. husb., Cornell Univ., 1913–4; instr., 1914–5; agt. Tioga Co., 1916—. *b.* Constableville, N. Y., Sept. 5, 1886; *s.* Chas. H. and Mary J. (O'Connor) Z.; reared on farm; *m.* Augusta E. Gilmartin, Oct. 17, 1917. Special student, Cornell Univ., 1912–3.

Zimmerman, Percy White, dean of div. and prof. of plant ind., Md. Agr. Coll., College Park, Md.

Asst. bot., Univ. Chicago, 1915; assoc. prof. bot., Md. Agr. Coll., 1916–7; acting dean, 1917; present position, 1918—. *b.* Manito, Ill., Feb. 23, 1884; *s.* Henry and Elizabeth (Singley) Z.; reared on farm; *m.* Patti Martin. Aug. 16, 1911. B.S., Univ. Chicago, 1914; M.S., 1916.

Zinn, William Davidson, co. agrl. agt., Clarksburg, W. Va.

Assoc. ed., Nat. Stockman and Farmer, Pittsburgh, Pa. *b.* Philippi, W. Va., May 16, 1857; *s.* A. and Lucinda A. (Gawthrop) Z.; reared on farm; *m.* Florence ungen, Oct. 23, 1879; *c.* D. D., Gay.

ADDENDA

Received too late for regular classification.

Aamodt, Olaf Sverrer, sci. asst., Off. Cereal Invests., U. S. Dept. Agr., and Univ. Minn., University Farm, St. Paul, Minn.

In Engin. Corps, U. S. Army, 1918—. *b.* St. Paul, Minn., Aug. 9, 1892; *s.* August and Julia A.; reared on farm. B.S., Univ. Minn., 1917. Alpha Zeta; Gamma Sigma Delta.

Beavers, James Claudius, farmer, Guilford College, N. C.

Supt. test farm, N. C. Dept. Agr., June–Dec. 1906; agrst., Off. Farm Manag., 1907–11; assoc. soils and crops ext., Purdue Univ., 1911–8. *b.* Chatham, Co., N. C., Oct. 11, 1878; *s.* John Westey and Flora Elizabeth (Horton) B.; reared on farm; *m.* Mary Loula Graham, Nov. 6, 1906; *c.* Clara, Abba, Loula, James C. Jr., Leonard Horton. B.Agr., N. C. A.&M. Coll., 1906.

Blair, Joseph Cullen, prof. hort. and chief in hort., Univ. Ill., Urbana, Ill.

Instr. chem., agr. and bot., Provincial Coll. Agr., Truro, N. S., 1890–1; instr. hort. and hort. Exp. Sta., 1896–1901; present position, 1901—. Farmer and orchardist. *b.* Truro, N. S., Apr. 26, 1871; *s.* Wm. M. and Harriet (Blair) B.; *m.* Sada VanHorne, June 16, 1898. Grad. Provincial Coll. Agr., 1892; student Cornell Univ., 1892–6; M.S.A., Ia. State Coll., 1906. Sigma Xi; Alpha Zeta.

Booth, Charles Junius, head agrl. dept., Chaffey Union High-Sch. and Junior Coll., Ontario, Calif.

Princ. Monterey Co. High-Sch., 1911–3; present position, 1913—. *b.* Oakdale, Calif., Dec. 18, 1884; *s.* J. B. and Annie (Martin) B.; reared on farm; *m.* Nora H. Bradshaw, 1912; *c.* Francis Eldon. B.S., Univ. Calif., 1908; M.S., 1918. Alpha Kappa Lambda.

Branch, George Verne, specialist in city marketing, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

b. Boyne Falls, Mich., Aug. 28, 1887; *s.* George Harrison and Elma A. (Jones) B.; reared in small city; *m.* Leonora M. Buck, Dec. 24, 1913; *c.* George Harrison, Margaret Elizabeth. B.S., Mich. Agr. Coll., 1912.

Brodie, David Arthur, agrst., Off. Farm Manag., U. S. Dept. Agr., Washington, D. C.

Asst. Agrst., Wash. State Exp. Sta., 1898–9; supt. Pullallup Exp. Sta., 1899–1903; supt. outdoor exhibit, Bur. Plant Ind., 1903–4; present position, 1904–. *b.* Ont., Jul. 28, 1868 (naturalized 1900); *s.* Joseph and Jane Esson (Nelson) B.; reared on farm; *m.* Elizabeth Masterson Potts, Aug. 8, 1906. B.S.A., Wash. State Coll., 1898.

Callicote, William Riley, teacher and farmer, State House, Denver, Colo.

Teach. public schs., Ia., 10 yrs.; teach., Leadville, Colo., 4 yrs.; supt. city and country schs., Aspen, Colo., 4 yrs.; supt. moral and humane educ. for State Bd. Child and Animal Protection, Denver. Asst. sec. Nat. Humane Assoc.; pres. Farmers' Union Mutual Protective Assoc.; nat. vice-pres. Farmers' Union; Colo. state fish comnr. Mem. Nat. Bd. Farm Organizations. Served in Civil War. *b.* Franklin, Ind., Jul. 12, 1847; *s.* John B. and Elender (Thomas) C.; reared on farm; *m.* Duly A. Aiken, Sept. 3, 1873; *c.* True A., Alta Pearl, Maude Ethel, Hellen, Willard, Ellen, Elsie, Jesse D.

Campbell, Walter Jenkins, dir. co. work course, Inter. Y. M. C. A. Coll., Springfield, Mass.

Organizer and pastor Suffern Presbyterian Church, New York City, 1902–6; state sec. for co. work, N. Y., 1906–11; Pa., 1911–4; present position, 1914—. Mem. Church and Country Life Comn., Fed. Council of Churches of Christ in Am.; chm. com. on leadership training; com. on country life, 1918—. *Auth.:* Vital Problems in Rural Leadership, 1915. Reviewer of rural literature for Associa-

tion Seminer and Rural Manhood. *b.* London, Ont., Aug. 20, 1876 (naturalized as minor); *s.* Archibald and Mary (Melville) C.; reared on farm; *m.* Anna C. Cramer, Sept. 4, 1907; *c.* A. Jocelyn, Jean Currie, Elizabeth Mary. A.B., Princeton Univ., 1899; A.M., Princeton Theol. Sem., 1902.

Carleton, Mark Alfred, agrst., Cosmos Club, Washington, D. C.

With U. S. Dept. Agr., 1894–1918; agrl. explorer for U. S. in Russia and Siberia, 1898–9. Chg. U. S. grain exhibit and mem. jury awards, Paris Expos., 1900; chm. jury awards, St. Louis Expos., 1904. With Pa. Chestnut Blight Comn., 1912–3. Cerealist, Bur. Plant Ind. U. S. Dept. Agr., 1900–18. Fellow A.A.A.S. Decorated by French govt. with order Merite Agricole. *Auth.:* The Small Grains, 1916. *b.* Jerusalem, O., Mar. 7, 1866; *s.* Lewis D. and Lydia Jane (Mann) C.; *m.* Amanda Elizabeth Faught, Dec. 29, 1897. B.Sc., Kans. State Agr. Coll., 1897; M.Sc., 1893.

Case, Harold Clayton M., assoc. in farm organization and manag., and asst. State leader of farm adv. work, Univ. Ill., Urbana, Ill.

Grad. asst. an. husb., Univ. Ill., 1912–3; farm manag. 2 yrs.; farm manag. dem., Univ. Ill., 1915–7; present position, 1917—. *b.* Dunlap, Ill., Mar. 1, 1890; *s.* Charles Milton and Eliza Ann (Cramer) C.; reared on farm. B.S., Univ. Ill., 1912. Sigma Xi; Alpha Zeta.

Creswell, Charles F., invest. in marketing cotton seed and its products, Bur. Markets, U. S. Dept. Agr., Washington, D. C.

b. Lindley, N. Y., Jul. 7, 1886; *s.* Garrison T. and Sarah Emily (Camp) C.; reared on farm. LL.B., Nat. Univ. of Law, Washington, 1913.

Dille, Alvin, specialist in agrl. educ., States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Supt. schs., Albany, O., 1903–7; princ. high-sch. and dir. club work, Port Arthur, Tex., 1907–10; supt. schs. and dir. boys' club work, Kerrville, Tex., 1910–4; supt. schs. and dir. agr., Bishop, Tex., 1914–8; instr. rural life summer sch., Tex. A. & M. Coll., 1916–7; present position, 1918—. Vice-pres. Tex. State Farmers' Inst.; state chm., Nat. Educ. Assoc. for Tex. *b.* O., Oct. 31, 1876; *s.* Lewis C. and Louisa (Vernon) D.; reared on farm; *m.* Bertha Wickersham, Dec. 29, 1902; *c.* Lewis Alonzo, Thelma Maxine, Robt. Carl, Dorothy May, Alvin W. A.B., Ohio State Univ., 1896.

Ely, George Russell, co. agrl. agt., Little Rock, Ark.

Head dept. an. husb., State Agr. Sch., Jonesboro, Ark., 1913–5; chief clerk, Dept. Mines, Manufacturing and Agr., Ark., 1916–7; agt. Pulaski Co., Ark., 1918—. *b.* Dimock, Pa., June 25, 1889; *s.* Frank L. and Emma (Johnson) E.; reared on farm. B.S., Penn. State Coll., 1913.

Felt, Ephraim Porter, state ent., N. Y. State Museum, Albany, N. Y.

Teach. nat. sci., Clinton Liberal Inst., Fort Plain, N. Y., 1893–5; present position, 1895—. Pres. Am. Assoc. Econ. Ent., 1902. Traveled in Europe, 1909. Ent. ed., Country Gentleman, 1898–1911; ed. Journal Economic Entomology, 1908—. *b.* Salem, Mass., Jan. 7, 1868; *s.* Chas. W. and Martha S. (Ropes) F.; reared on farm; *m.* Helen M. Otterson, June 24, 1896; *c.* Margaret, Ernest Porter, Helen, Elizabeth. B.Sc., Mass. Agr. Coll. and Boston Univ., 1891; D.Sc., Cornell Univ., 1894. Sigma Xi; Alpha Sigma Phi.

Ferguson, Alexander McGowen, pres. Ferguson Seed Farms and Ferguson Pub. Co., Sherman, Tex.

Assoc. prof. hort. and mycology, Tex. A.&M. Coll., 1899–1900; instr. bot., Univ. Tex., 1900–6; special agt., U. S. Dept. Agr., 1905; special lect., Okla. A.&M. Coll., 1907–9. Fellow A. A. A. S., Tex. Acad. Sci. Sec. Tex. Corn Growers' Assoc., 1907–9, pres., 1910–1; pres. Tex. Crop Improvement Assoc., 1916–7. Served in Spanish-American War. *Auth.:* Elementary Principles of Agriculture, 1908. *b.* Belton, Tex., Jan. 7, 1874; *s.* James E. and Fanny (Fitzpatrick) F.; reared on farm; *m.* Hallie Henderson, June 3, 1903; *c.* Katherin, Rachel, James, Alex, Tom. B.S.A., Tex. A.& M. Coll., 1893; M.Sc., 1894; student Mo. Bot. Gard., St. Louis, 1907–9, and Cornell Univ.

Fisher, Ora Stanley, agrst., Ext. Off. North and West, States Relations Serv., U. S. Dept. Agr., Washington, D. C.

Asst. agron., Univ. Ill., 1908–12; asst. prof., 1912–5; present position, 1915—.

b. Washburn, Ill., Sept. 1, 1878; *s.* O. M. and Sarah F.; reared on farm; *m.* Elsie M. Taylor, June 4, 1910; *c.* John Taylor, Doris. B.S., Univ. Ill. Alpha Zeta.

Folsom, Justus Watson, asst. prof. ent., Univ. Ill., Urbana, Ill.

Prof. nat. sci., Antioch, Ill., 1899–1900; instr. ent., Univ. Ill., 1900–6; assoc., 1906–8; asst. prof., 1908—. Fellow A. A. A. S.; Ent. Soc. Am. *Auth.:* Entomology with Special Reference to its Biological and Economic Aspects, 1906, 2d ed., 1913. *b.* Cambridge, Mass., Sept. 2, 1871; *s.* James Nelson and Charlotte Elizabeth (Watson) F.; reared in city. Sc.B., Harvard Univ., 1895; Sc.D., 1899.

Goodwin, William Ransdell, manag. ed. The Breeders' Gazette, Chicago, Ill.

Vice-pres. Am. Saddle Horse Breeders' Assoc.; pres. Nat. Soc. of Record Assoc.; pres. Am. Cat Assoc. *b.* Brookville, Ind., Aug. 19, 1863; *s.* W. R. and Sue A. (Keeley) G.; reared in city; *m.* Mary Eva Puttman Hazlett, Nov. 2, 1892; *c.* Mortimer. B.A., Ind. Asbury Univ., 1883; M.A., 1886. Beta Theta Pi.

Hansen, Niels Ebbesen, prof. hort. and for., S. D. State Coll., Brookings, S. D.

Engaged in nursery business, Ia., 1888–91; asst. prof. hort., Ia. State Coll., 1891–5; present position, 1895—. Explorer, U. S. Dept. Agr., 1897–8, collecting seeds and plants in Russia, Turkestan, W. China, Siberia, Transcaucasia; 1906, around world through Lapland, Finland, Russia, Siberia, Manchuria, Japan; 1908–9, Siberia, Mongolia, Turkestan, Transcaucasia, N. Africa; 1913, Siberia. Originator and introducer new fruits and alfalfa. *Auth.:* Handbook of Fruit-Culture and Tree-Planting, 1890; (with J. L. Budd) Systematic Pomology, 1903. *b.* Ribe, Denmark, Jan. 4, 1866 (naturalized as minor); *s.* Andrew and Bodil (Midtgaard) H.; *m.* Emma Elise Pammel, Nov. 16, 1898; 2d, Dora Sophia Pammel, Aug. 27, 1907; *c.* Eva Pammel, Carl Andreas. B.S., Ia. State Coll., 1887; M.S., 1895; Sc.D., S. D. State Univ., 1917

Heard, Dwight Bancroft, loan and investment business, Phoenix, Ariz.

With Hibbard, Spencer, Bartlett & Co., wholesale hardware, Chicago; general manag. Bartlett-Heard Land & Cattle Co. Pres. Ariz. Pub. Co.; mem. Nat. Adv. comn. on Beef for Fed. Food Administration. Mem. 1st Conservation Congress, 1908. Ex-pres. Am. Nat. Live-Stock Assoc. *b.* Boston, Mass., May 1, 1869; *s.* Leander B. and Lucy (Howard) H.; *m.* Maie P. Bartlett, Aug. 10, 1894.

Hillam, LeRoy Wareing, co. agrl. agt., Amarillo, Tex.

b. Salt Lake City, Utah, Aug. 23, 1894; *s.* Rodney Jr. and May (Wareing) H.; reared in city and on farm; *m.* Ethleen Folsom, Jan. 25, 1917. B.S.A. Utah Agr. Coll., 1916. Pi Zeta Pi.

Illingworth, James Franklin, prof. ent., Coll. of Hawaii, Honolulu, Hawaiian Isls.

Asst. zool., Pomona Coll., 1897–9; asst. zool., Seaside Lab., Stanford Univ., 1901; head dept. biol., Broadway high-sch., Seattle, 1901–10; present position, 1912—. Employed 1913 by Colonial Sugar Refining Co., Australia, to introduce parasitic insects for sugar in Fiji Isls.; on leave to conduct ent. invests. for Queensland Govt., 1917–20; located at Meringa, near Cairns, N. Queensland. Farmer, Kans., 10 yrs.; fruit ranch, Calif., 5 yrs. *b.* Lanark, Ill., May 11, 1870; *s.* James and Emeline (Jacobs) I.; reared on farm; *m.* Myrtle E. Seiger, 1903; *c.* Ruth, Lynn, Beth. B.S., Pomona Coll., 1900; M.A., Stanford Univ., 1901; Ph.D., Cornell Univ., 1912. Sigma Xi.

Kennedy, Willard John, pres. Purity Biol. Laboratories, Sioux City, Ia.

Instr. an husb., Univ. Ill., 1899–1901; prof. an. husb. and vice-dir. Exp. Sta., Ia. State Coll., 1901–12; dir. agrl. ext., 1912–4. Special rep., U. S. Dept. Agr. in Europe, 1905, 1917. *Auth.:* Judging Cattle, Horses, Sheep and Swine, 1903; Profitable Pork Producing, 1910. *b.* Vernon, Ont., Oct. 1, 1876 (naturalized 1905); *s.* Archibald and Jean (McInnas) K.; reared on farm; *m.* Beulah May Brigham, Feb. 13, 1904; *c.* Arlvene, Ronald. B.Agr., Ia. State Coll., 1899. Phi Kappa Phi; Alpha Zeta; Pi Kappa Alpha.

Kern, Frank Dunn, prof. bot. and bot. to Exp. Sta. State College, Pa.

Spec. agt. Bur. Plant Ind., U. S. Dept. Agr., 1904–5; asst. and later assoc. bot., Ind. Exp. Sta., 1905–13; instr. crypt. bot., Purdue Univ., 1910–12; present position

1913—. Bot. Pa. State Bd. Agr.; mem. War Emergency Bd.; ed. bd. Amer. Journ. Bot.; specialist in the plant rusts. *b.* Reinbeck, Ia., June 29, 1883; *s.* W. S. and Emma (Dunn) K.; reared on farm; *m.* Jessie Adair, Aug. 21, 1907; *c.* Sue Emma, Frances Louise. B.S. Univ. Ia., 1904; M.S., Purdue Univ., 1907; Ph.D., Columbia Univ., 1911. Sigma Xi; Alpha Zeta.

Long, J. Weller, nat. sec.–treas. Amer. Soc. of Equity, Madison, Wis.

b. Napoleon, O., May 17, 1852; *s.* John and Samantha (Gardner) L.; reared on farm; *m.* Mary Frances Grimes; *c.* J. Weller, Jr., Eileen, Wilford Darwin, Spencer Clay, Eva Fay.

Munro, Willis, asst. in for. manag., Bur. Ent., U. S. Dept. Agr., 12 Pearl St., Boston, Mass.

Mem. for Suffolk Co., Mass. State Dept. Agr. Deputy asst. distr. attorney N. Y. Co., N. Y., 1902–3; ensign, Mass. Naval Militia, 1896. Traveled Russia, 1900, Iceland, 1901. Mem. Assoc. of Bar of City of N. Y. *b.* Boston, Mass., Dec. 3, 1873; *s.* Josiah Greene and Sarah Keene Healey (Dall) M.; reared in city; *m.* Marion Beach Bogardus, Oct. 31, 1907. A. B., Harvard Coll., 1896; L.L.B., Harvard Law Sch., 1899; M. F., Yale For. Sch., 1912.

Murphy, Barry, ed. N. Y. State Fruit Grower, Medina, N. Y.

Mem. N. Y. State Fair Comn., 4 yrs.; sec. to Lieut-Gov. Lewis Stuyvesant, Chanler, and Gov. John A. Dix, N. Y.; nat. del. Dem. Conv., Denver, 1914. *Ed.*, The News, and The Orleans Co. Magazine, Medina, N. Y. *b.* Knowlsville, N. Y., May 14, 1873; reared on farm; *s.* Dennis and Margaret M.; *m.* Kathryne Waldner, July 12, 1906; *c.* Margaret, Kathryne, Junior, Jack.

Murray, Nathaniel Carleton, asst. chief Bur. Crop Estimates, U. S. Dept. Agr., Washington, D. C.

Market and financial reporter, 1892–4; asst. ed. Cincinnati Price Current, 1898–1904; special agt., U. S. Dept. Agr., 1904–7; statistician and asst. to chief Bur. Crop Estimates, 1907—. *b.* Cincinnati, O., Nov. 29, 1872; *s.* Chas. Burleigh and Sallie (Powell) M.; *m.* Elsie Johnson, June 7, 1900. B.Litt., Univ. Cincinnati, 1898. Phi Delta Theta.

Nason, Wayne C., asst. in rural organization, Bur. Markets, U. S. Dept. Agr., Washinton, D. C.

Prof. hist., Minneapolis Classical Sch., 1900–1; superv. schs., Philippines Isls., 1901–6. Traveled in Orient and Europe. *b.* Osceola Mills, Wis., Apr. 17, 1874; *s.* Crocker Fletcher and Evelyn (Fenlason) N.; reared in town and on farm. B. S., Univ. Minn., 1900.

Nicholson, John Frederick, marketing specialist for Ark. and U. S. Dept. Agr., Little Rock, Ark.

Asst. bact., Wis. Exp. Sta., 1900–2; N. Y. Exp. Sta., Geneva, 1902–3; Okla. A.&M. Coll., 1903–5; prof. bot. and ent., 1905–9; prof. bact., Univ. Ida., 1909–15; vice-dir. Ida. Exp. Sta., 1915–5; superv. farm marketing, St. Louis and San Francisco R. R., 1915–6; prof. agron. and agron. Exp. Sta., Univ. Ariz., 1916–7; present position, 1917—. *b.* Brodhead, Wis., Jul. 9, 1878; *s.* Frederick Wm. and Alice (Cronk) N.; *m.* Hazel Isaacs, Jul. 14, 1904. B.S., Univ. Wis., 1900; M.S., 1902.

Pomeroy, Carl Stone, invest. marketing fruits and veg., Bur. Markets, U. S. Dept. Agr., Riverside, Calif.

Asst. hort. Vt. Exp. Sta., Burlington, Vt., 1906–7; asst. hort. Mass. Exp. Sta., Amherst, Mass., 1907–8; present position 1908—. *b.* Franklin, Vt., May 31, 1882; *s.* John W. and Julia C. (Stone) P.; *m.* Elsie Elizabeth Lower, Nov. 15, 1911; *c.* Florence Elizabeth. Ph.B., Univ. Vt., 1904, B.S., 1906. Delta Sigma.

Seeds, K. Beaver, specialist in grain marketing, Bur. Markets, U. S. Dept. Agr., Third Nat. Bank Bldg., Atlanta, Ga.

Chm. bd. dir., O. Grain Dealers' Assoc., 1914–5; present position, 1915—. *b.* Liberty, Ind., Oct. 18, 1879; *s.* E. W. and Frances C. (Beaver) S.; reared in city, closely assoc. with father's grain business; *m.* Susan Hazel Milar, Nov. 4, 1908; *c.* Elizabeth Milar, Elmore Willard. Student O. State Univ.

Smith, Ralph Waldo, sci. asst. in agron., (cereal breeding), U. S. Dept. Agr., Dickinson Exp. Substa., Dickinson, N. D.

Princ. rural consolidated schools, 1909–12. *b.* Spring Valley, Minn., Oct. 9, 1877; *s.* Eber A. and Sarah L. (Sanborn) S.; reared on farm; *m.* Effie F. Christian,

Feb. 23, 1904; *c.* Glenn S., Ruth S., Myrtle C. B.S.A. N. D. Agr. Coll., 1914.

Stubbs, William Carter, state chem., 701 Howard Ave., New Orleans, La.

Prof. nat. sci., E. Ala. Coll., 1869–72; prof. chem., Ala. A. & M. Coll., 1872–85; state chem., Ala., 1882–5; prof. agr., La. State Univ. and dir. Exp. Sta., 1885–1905; state chem., La., 1886—. *Auth.:* Sugar (2 vols.) *b.* Gloucester Co., Va., Dec. 7, 1846; *s.* Jefferson W. and Ann Walker (Baytop) S.; *m.* Elizabeth Saunders Blair, Jul. 27, 1875. A.B., Randolph-Macon Coll., 1862; Univ. Va., 1867.

Thomas, George, prof. agrl. econ., Univ. Utah, Salt Lake City, Utah.

Present position, 1898—. *Auth.:* Modern Constitutions, 1907; Civil Government of Utah, 1912. *b.* Hyde Park, Utah, Dec. 29, 1866; *s.* Geo. and Mary Ann (Griffiths) T.; *m.* Anna M. Eliason, Jul. 2, 1908. A.B., Harvard Univ., 1896; A.M., 1901; Ph.D., Friedrich Wilhelm Univ., Germany, 1902.

Waters, Henry Jackson, Kans. City Star, Kansas City, Mo.

Asst. sec. Mo. State Bd. Agr., 1886–8; asst. agr., Mo. Exp. Sta., 1886–91; prof. agr. and agrst. Exp. Sta., Penn. State Coll., 1892–5; prof. agr., dean Coll. Agr. and dir. Exp. Sta., Univ. Mo., 1895–1909; pres. Mo. State Bd. Agr., 1908–9; pres. Kans. State Agr. Coll., 1909–17; present position, 1917—. Comnr. from U. S. to Philippine Isls. to report on agrl. and educational development. Mem. Kans. State Bd. Educ., 1909; Kans. State School Book Comn., 1913. Pres. Soc. Promotion Agrl. Sci., 1914–5. *Auth.:* The Essentials of Agriculture, 1915. *b.* Center, Mo., Nov. 23, 1865; *s.* Geo. Washington and Lavinia Jane (Smith) W.; *m.* Margaret Watson, June 3, 1897. B.S.A., Univ. Mo., 1886; LL.D., N. H. A.&M. Coll., 1913, Univ. Mo., 1916; studied Univ. Leipzig and Zurich, 1904–5. Phi Beta Kappa; Sigma Xi; Alpha Zeta.

Wilson, James, agrst., formerly Secretary of Agriculture, Traer, Ia.

Mem. 12th, 13th and speaker 14th Assemblies of Ia.; regent State Univ. Ia., 1879–4; mem. Congress, 1873–7; mem. Ia. State Ry. Comn., 1877–83; mem. Congress, 1883–5; dir. Exp. Sta. and prof. agr., Ia. State Coll., 1890–7; sec. agr., 1897–1913. *b.* Ayrshire, Scotland, Aug. 16, 1835; *s.* John and Jean (McCosh) W.; *m.* Esther Wilbur. LL.D., Univ. Wis., 1904; Cornell Coll., Ia., 1904; McGill Univ., 1909, Univ. Edinburgh, 1904.

Wilson, James Wilbur, prof. agr. and an. husb. and dir. Exp. Sta., S. D. State Coll., Brookings, S. D.

Asst. prof. agr., Ia. State Coll., 1897; sec. to Sec. Agr., Washington, 1897–1900; present position, 1902—. Sec.-treas. S. D. Improved Live-Stock and Poultry Breeders' Assoc. *b.* Traer, Ia., Feb. 12, 1869; *s.* James and Esther (Wilbur) W.; *m.* Elsie Chappell, Apr. 18, 1906. B.S.A., Ia. State Coll., 1896; M.S.A., 1898.

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